

# In Vitro Cellular Uptake of $^{99m}\text{Tc}$ -EC-Angiostatin in Breast Cancer Cells

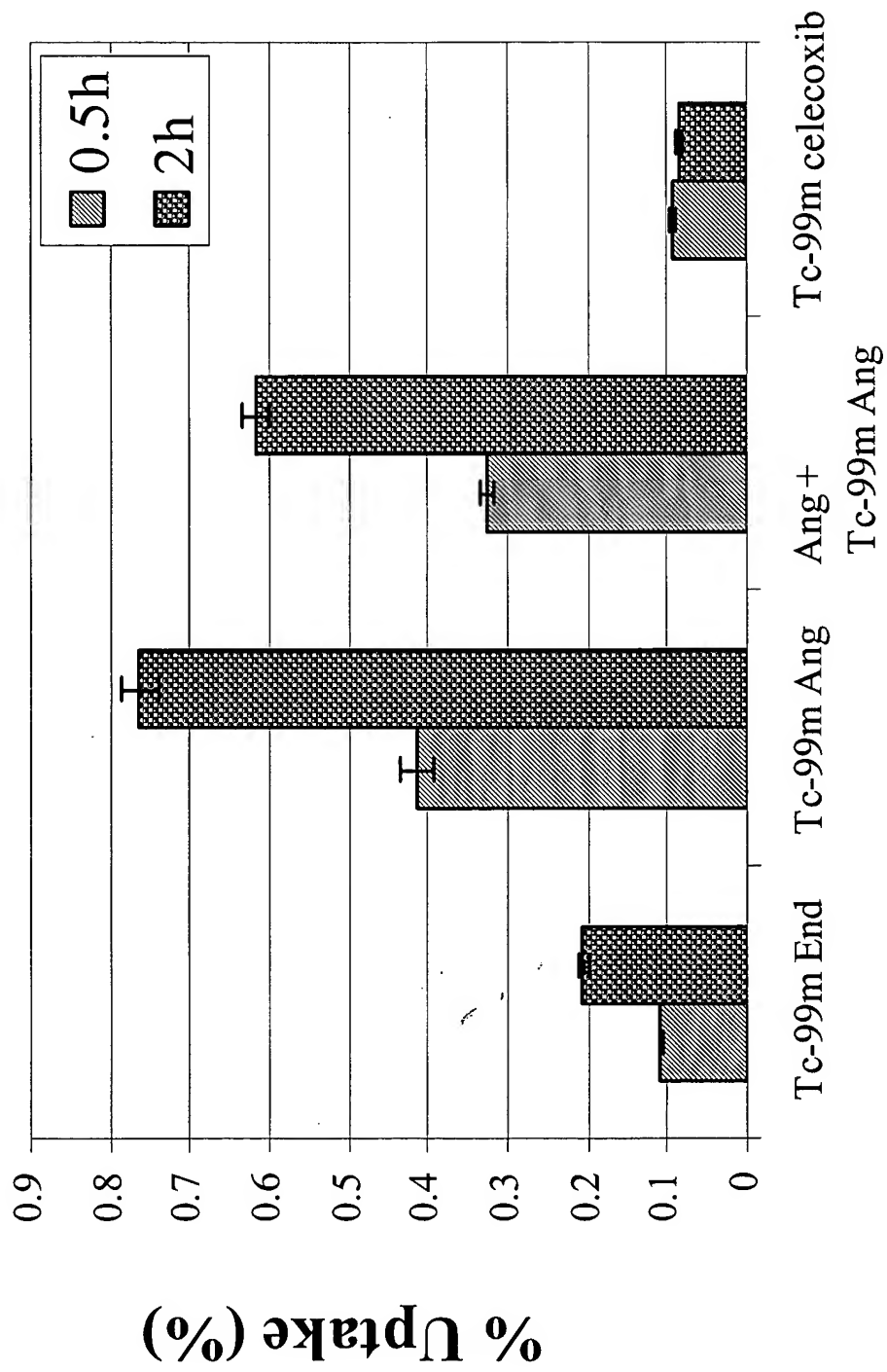


FIG. 1

# In Vitro Blocking Study of $^{99m}\text{Tc}$ -EC-Angiostatin Cellular Uptake In Breast Cancer Cells

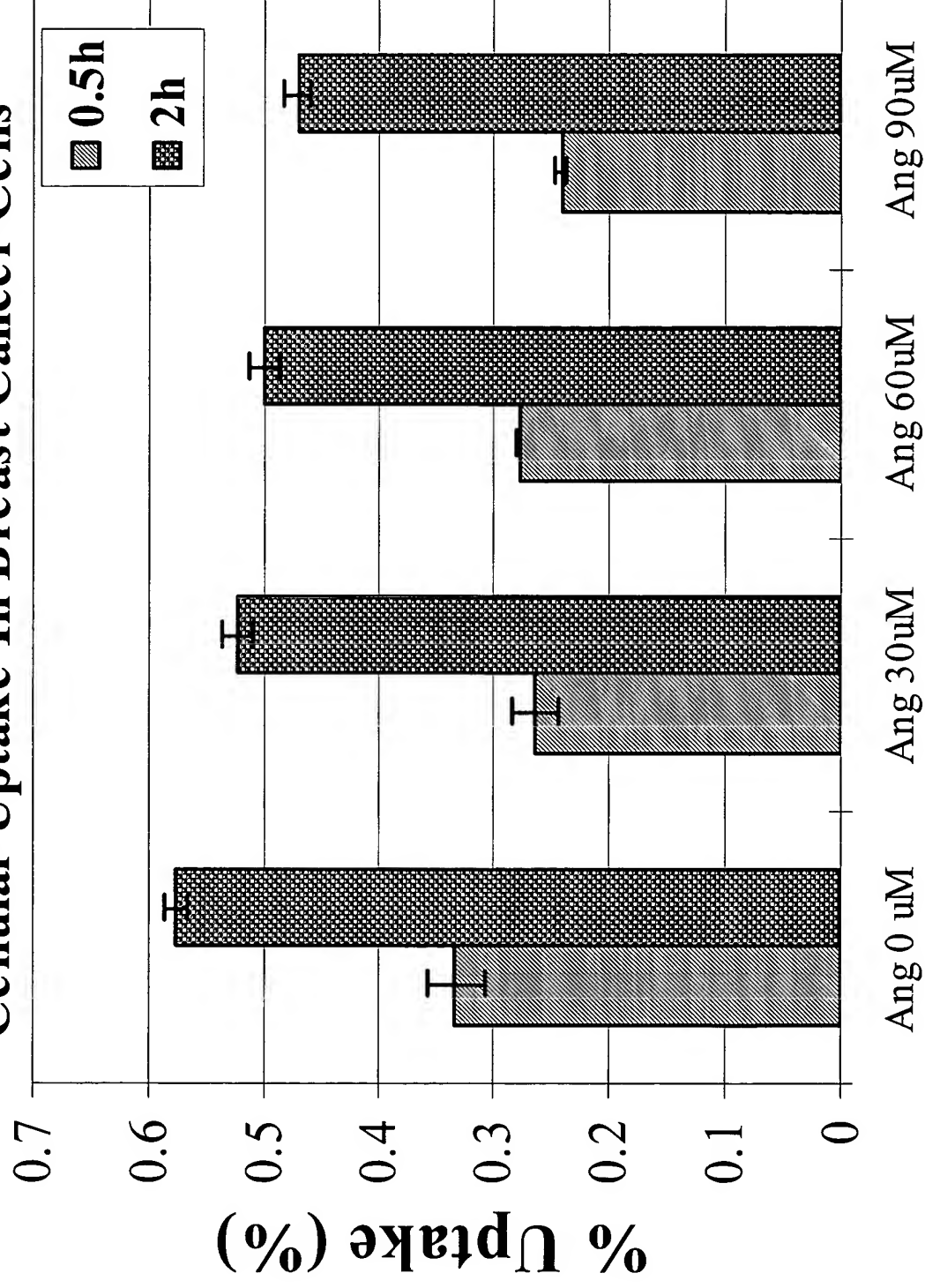


FIG. 2

**Percent Inhibition of  $^{99m}\text{Tc}$ -EC-Angiostatin  
in Breast Cancer Cells by Angiostatin at 2 hours**

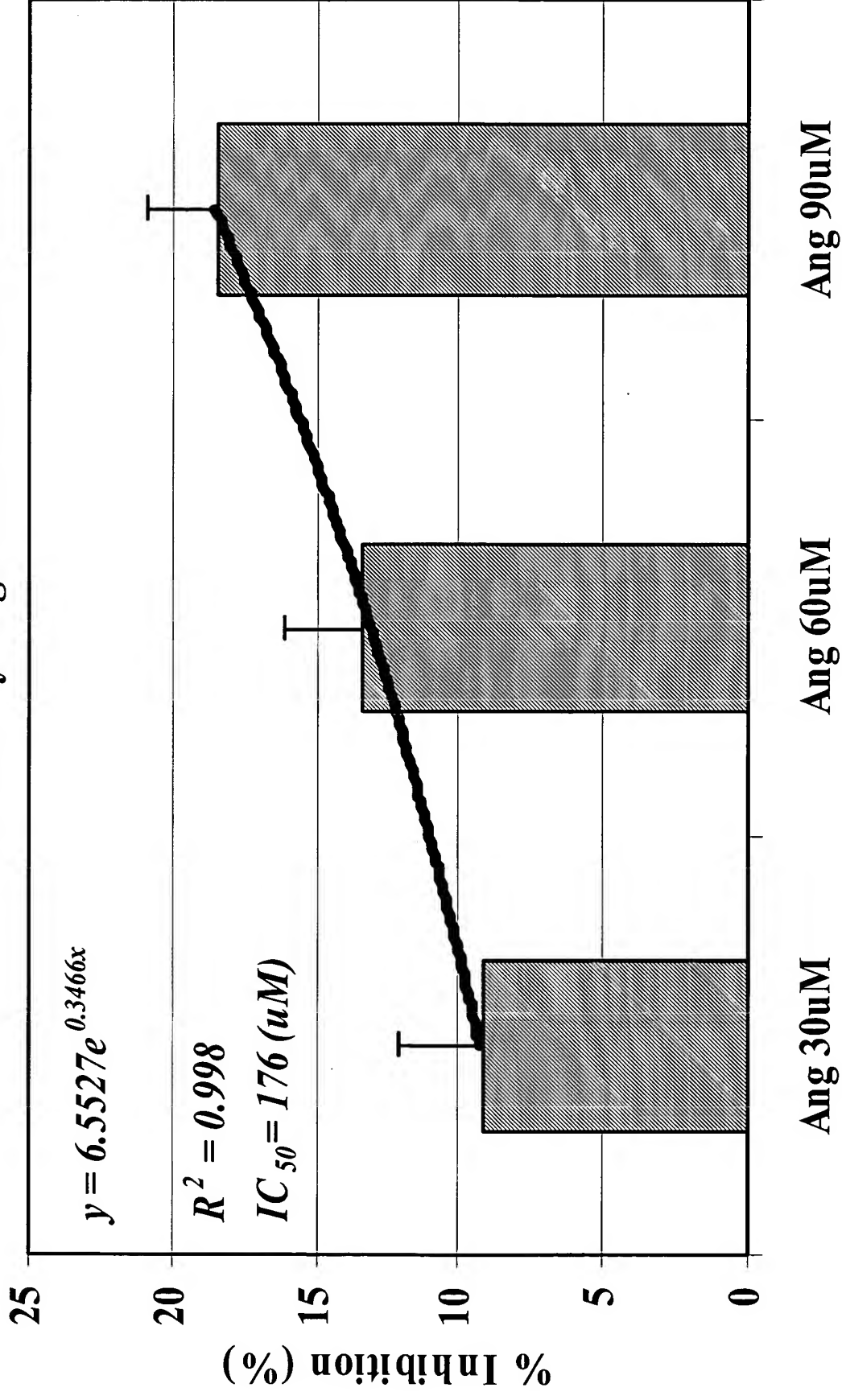


FIG. 3

# Tumor Uptake of $^{99m}\text{Tc}$ -EC-Anti-Angiogenic Agents in Breast Tumor-Bearing Rats

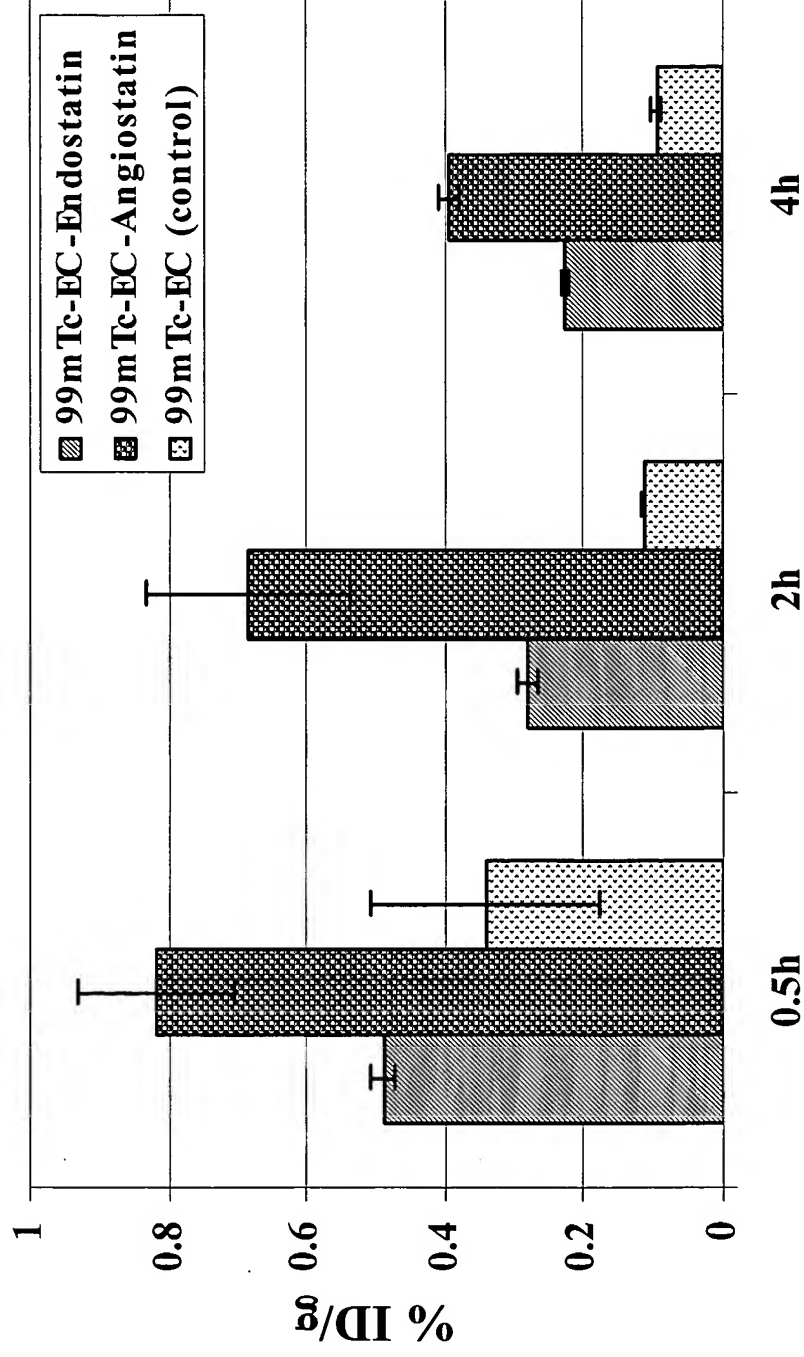


FIG. 4

# Tumor-to-Muscle Count Density Ratios of $^{99m}\text{Tc}$ -EC-Anti-Angiogenic Agents

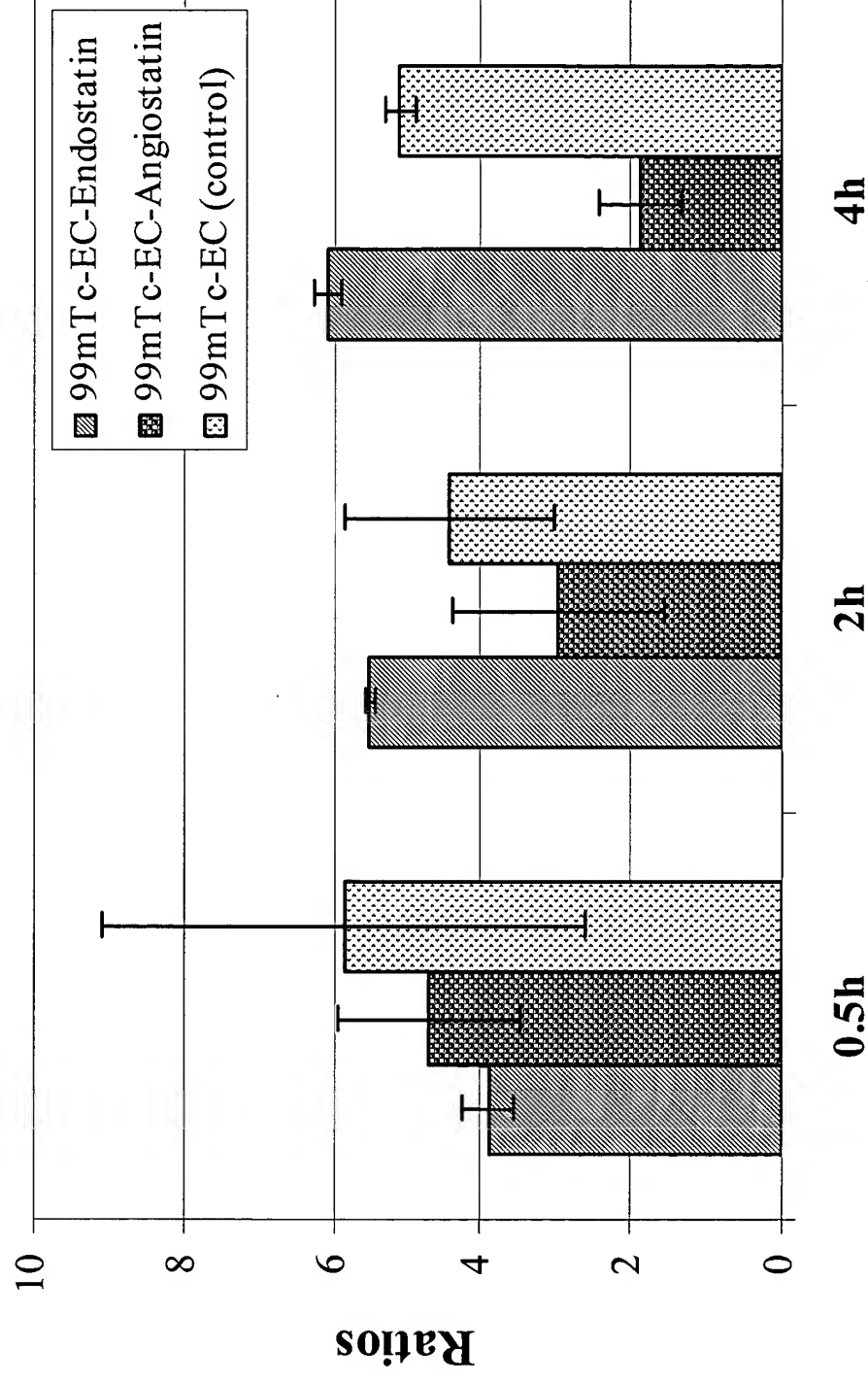


FIG. 5

# $^{99m}\text{Tc}$ -EC-Angiostatin Images

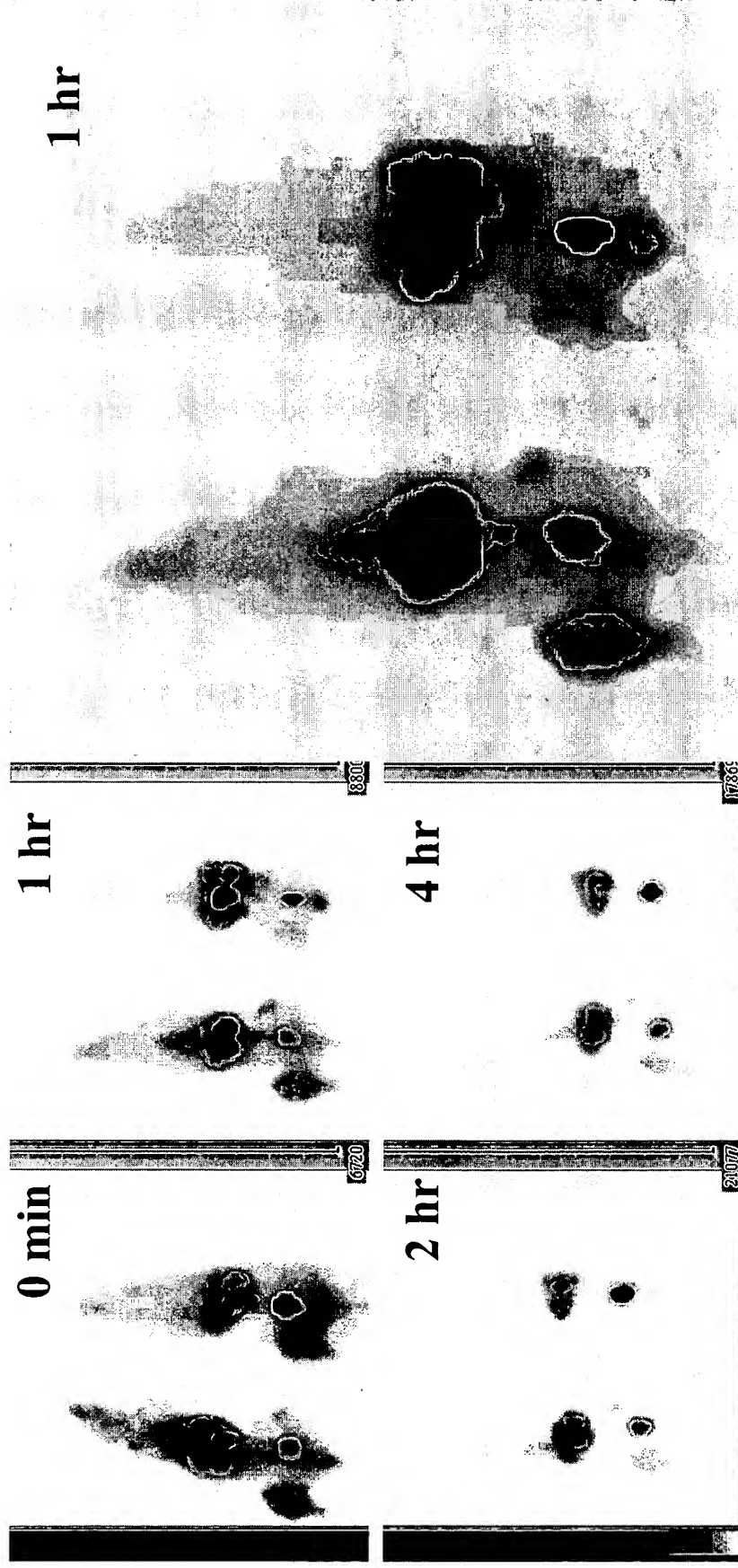


FIG. 6

# HPLC Chromatogram of $^{99m}\text{Tc}$ -EC-C225

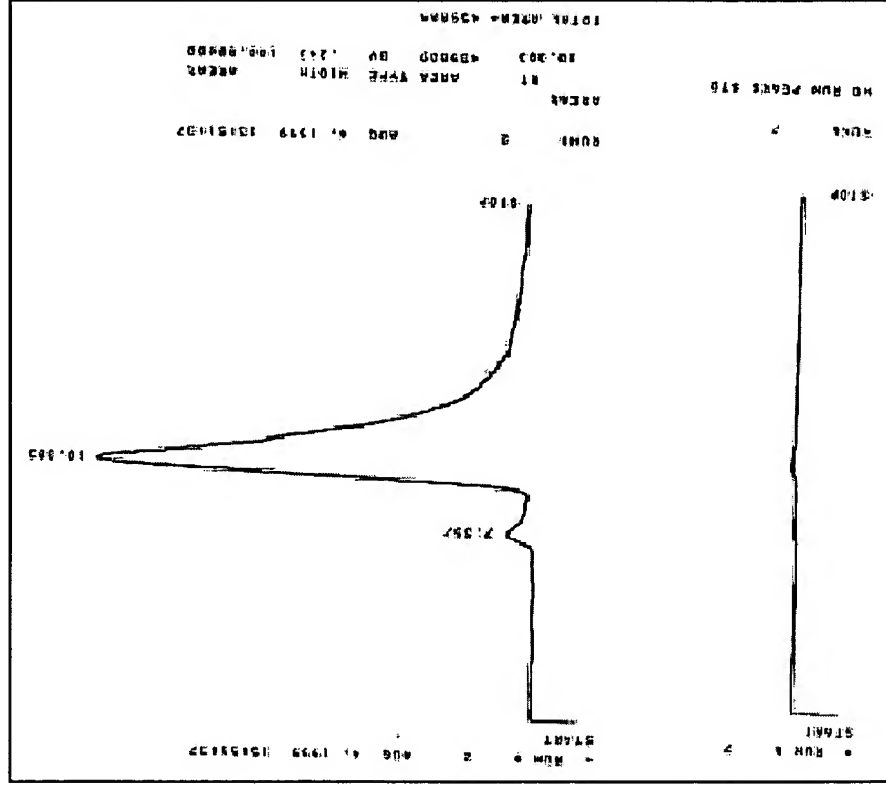
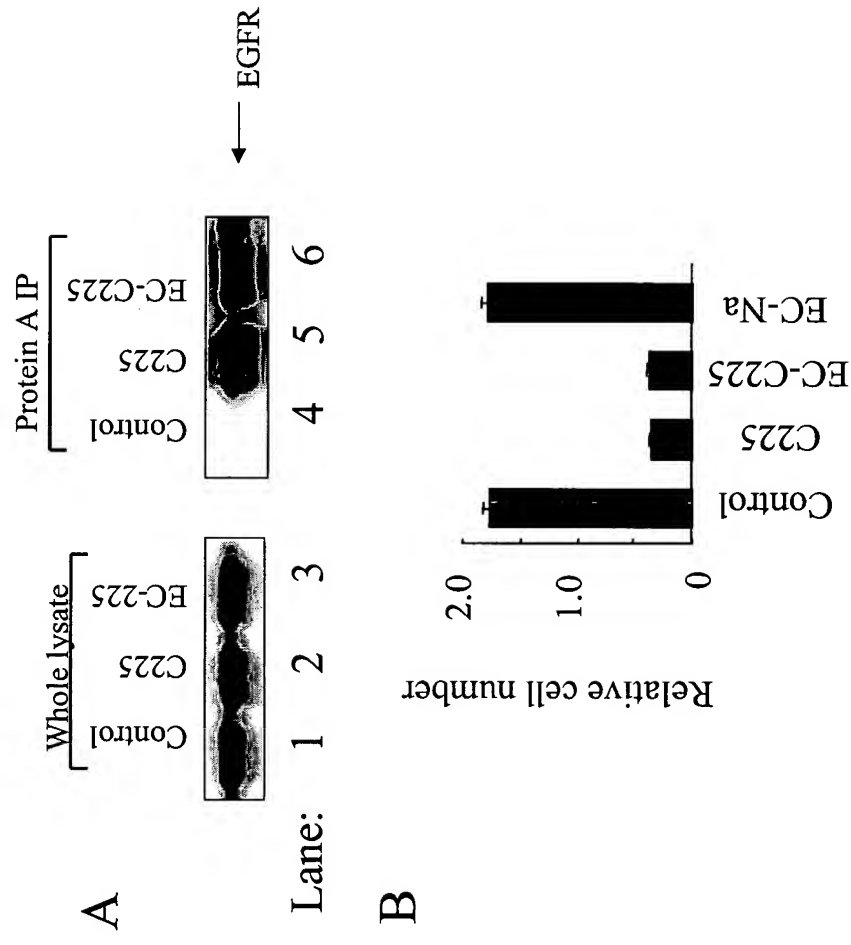


FIG. 7

# *In Vitro* Comparison of EC-C225 and C225



**FIG. 8**



# Uptake of $^{99m}\text{Tc}$ -EC-C225 in A431 Tumor-Bearing Nude Mice

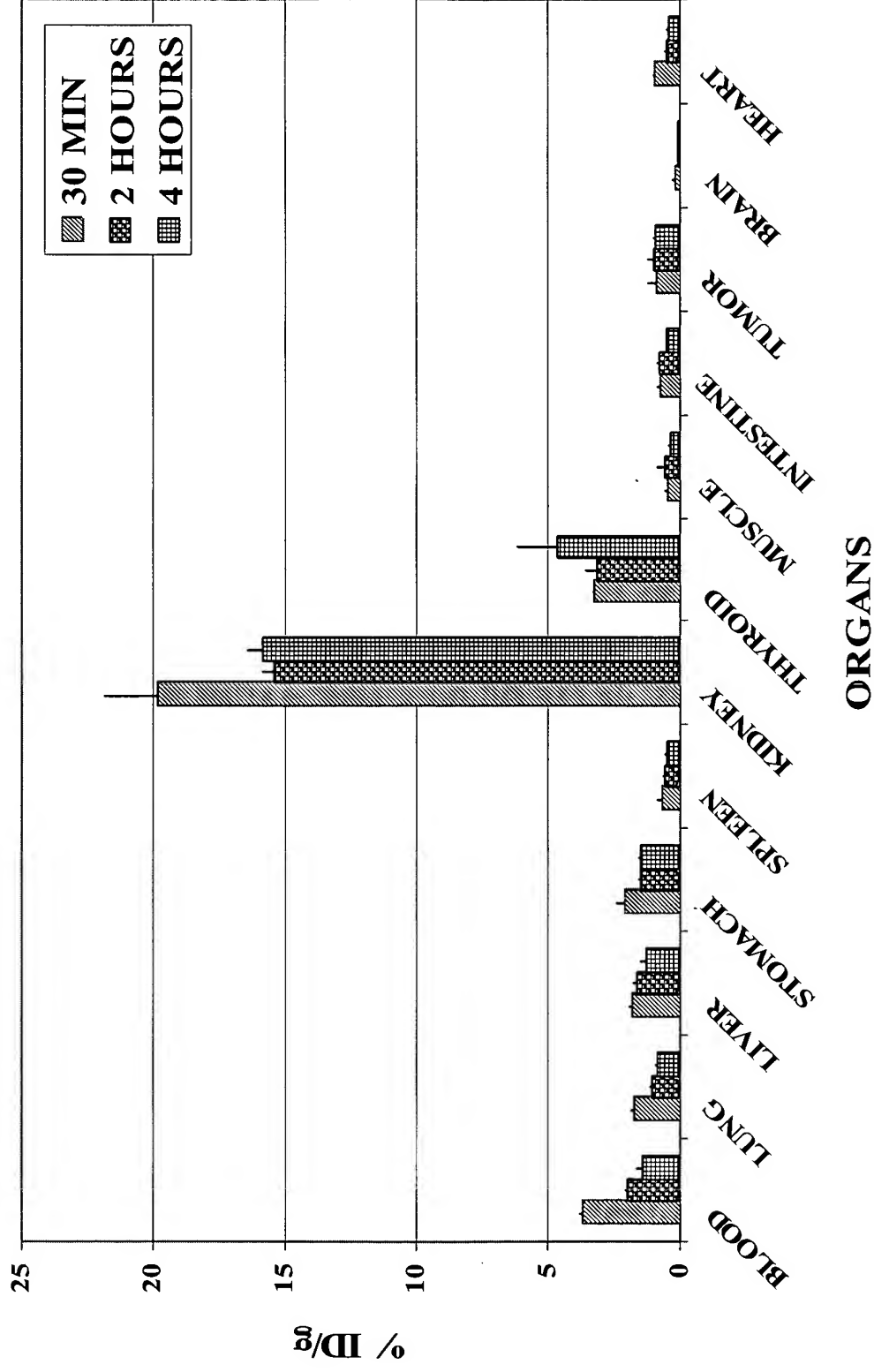
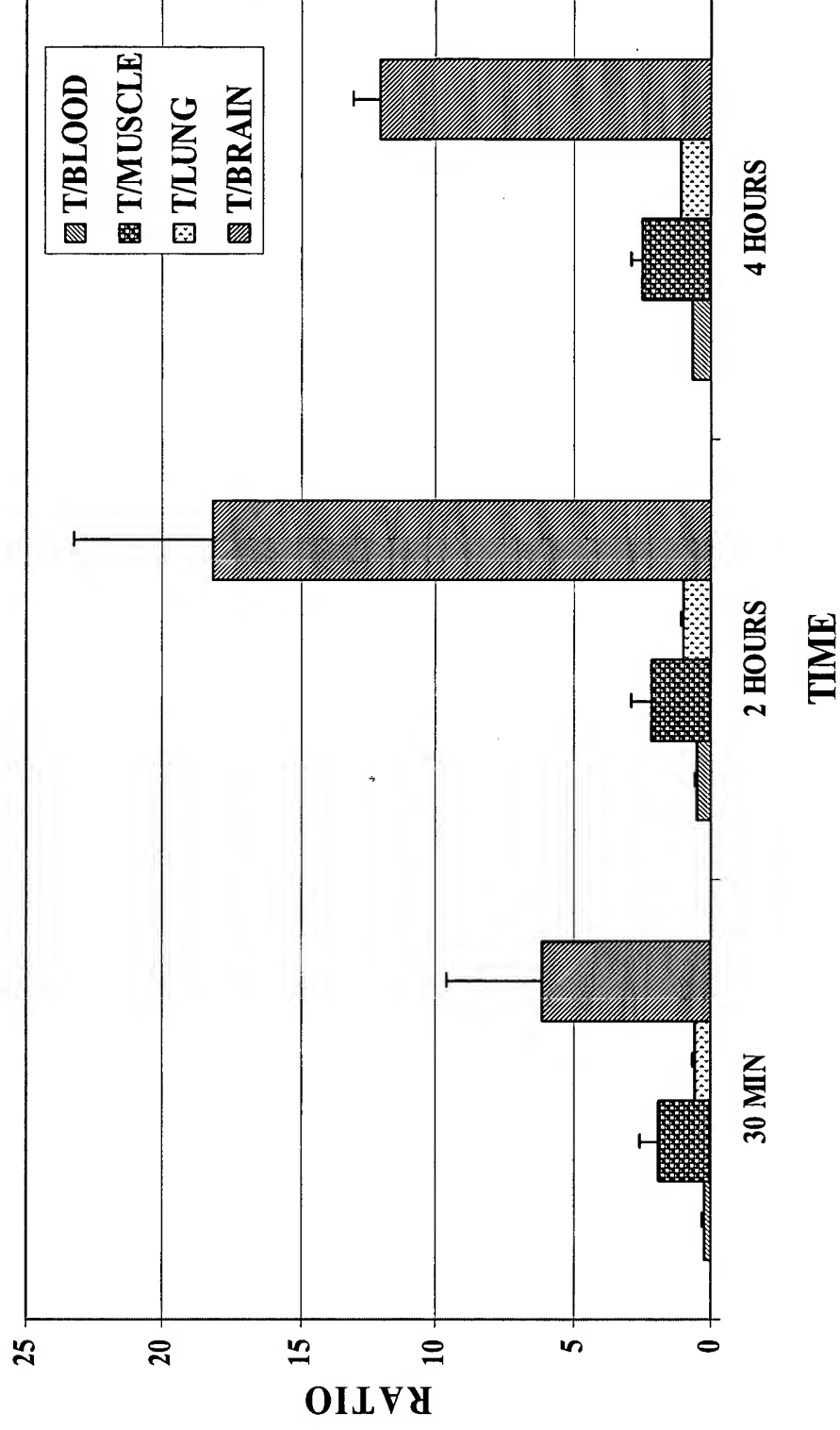


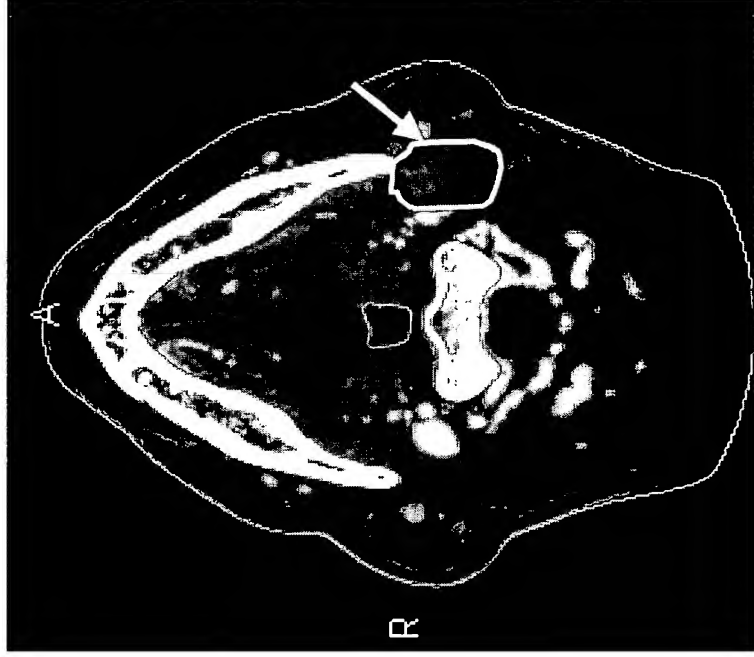
FIG. 9

# **Tumor-to-Tissue Count Density Ratios of <sup>99m</sup>Tc-EC-C225 in A431 Tumor-Bearing Nude Mice**

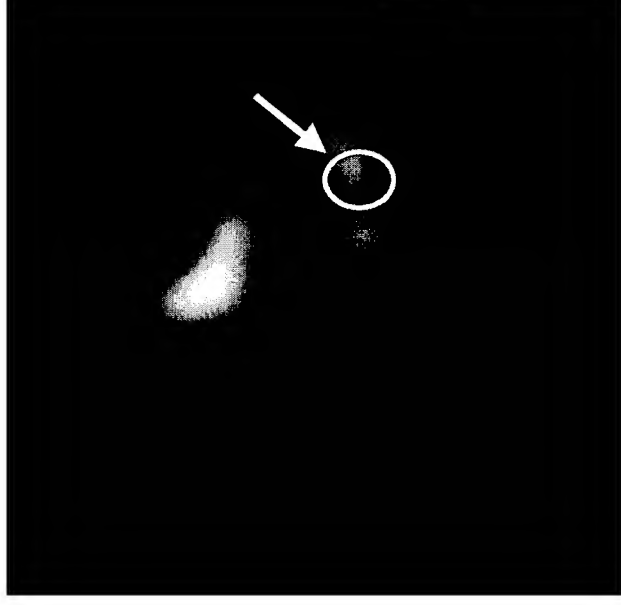


**FIG. 10**

**$^{99m}\text{Tc-EC-C225}$  Scan for Head&Neck Cancer:  
L Jugulodigastric Lymph Node**



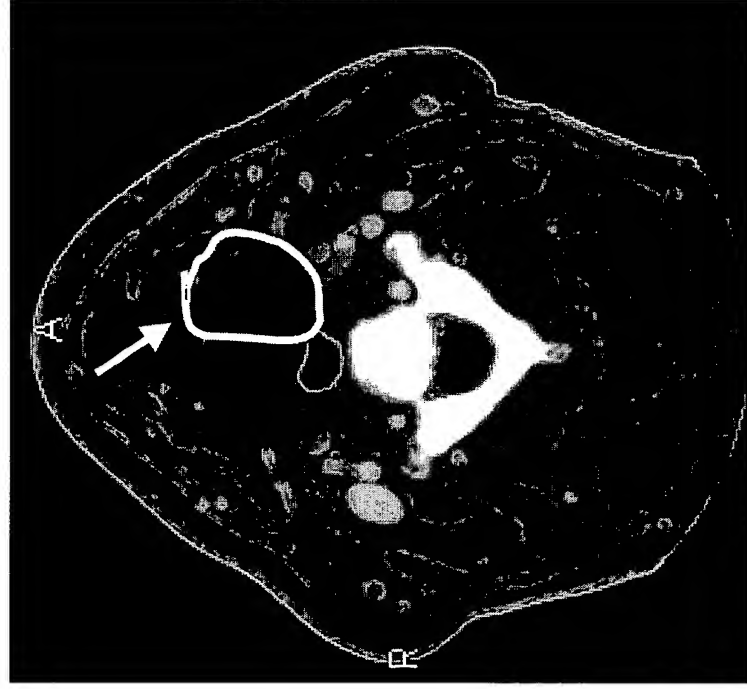
CT: Transverse (15°)



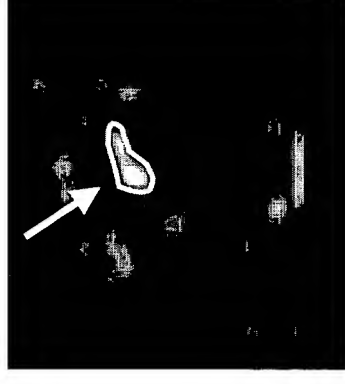
C225 Scan: Transverse (0°)

**FIG. 11**

**$^{99m}\text{Tc-EC-C225}$  Scan for Head&Neck Cancer:  
L Base of Tongue & Floor of Mouth**



CT: Transverse (15°)



C225 Scan: Coronal



C225 Scan: Transverse (0°)

**FIG. 12**

# Synthesis of EC-celecoxib

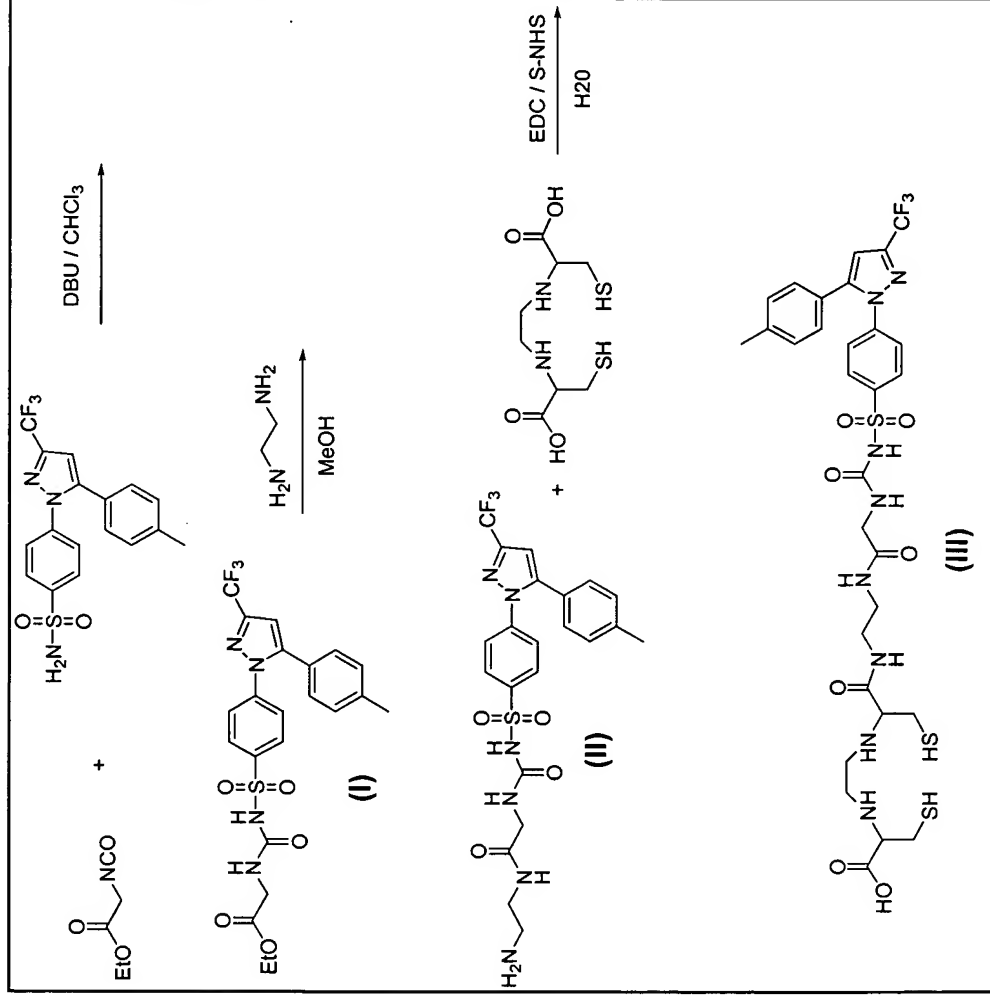


FIG. 13

# NMR Spectra Data of EC-celecoxib-Ester

	Observed (ppm)	
7.86 (2H, d, J=8.6Hz)	f	
7.33 (2H, d, J=8.6Hz)	e	
7.03 (2H, d, J=8.2Hz)	c	
6.98 (2H, d, J=8.2Hz)	b	
6.62 (1H, s)	d	
4.41 (2H, s)	g	
4.01 (2H, q, J=7.1Hz)	h	
2.22 (3H, s)	a	
1.11 (3H, t, J=7.1Hz)	i	

FIG. 14

# NMR Spectra Data of EC-celecoxib

	Observed (ppm)	
7.83 (2H, d, J=8.6Hz)	f	
7.27 (2H, d, J=8.6Hz)	e	
7.03-7.09 (4H, m)	c,b	
6.68 (1H, s)	d	
3.56 (2H, br)	g	
3.38 (2H, br)	h	
2.94 (2H, br)	i	
2.26 (3H, s)	a	

FIG. 15

# In Vitro Cellular Uptake of $^{99m}\text{Tc}$ -EC-Agents in Breast Cancer Cells

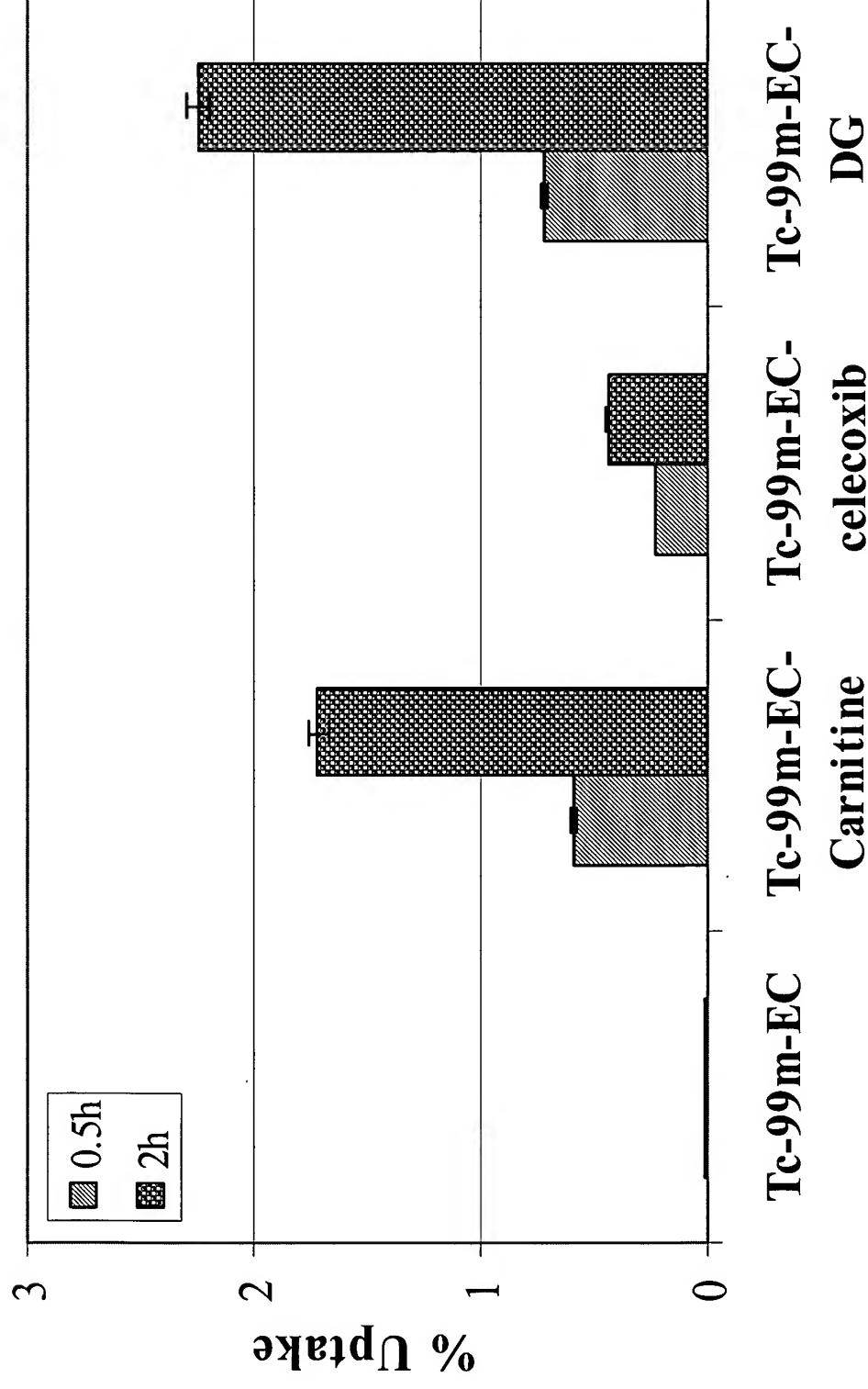


FIG. 16



# Scintigraphic Images of $^{99m}\text{Tc}$ -EC-celecoxib

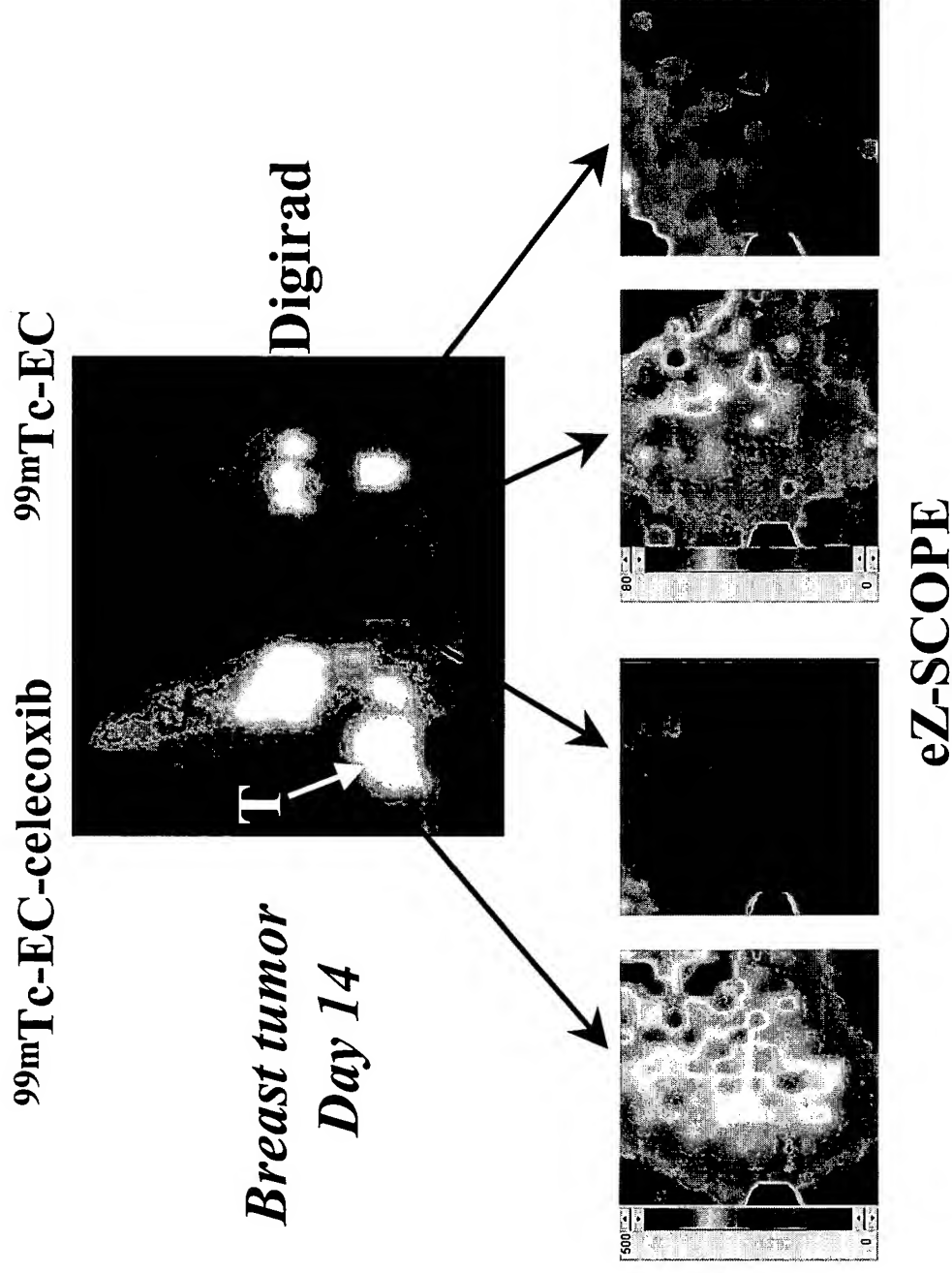


FIG. 17

## EC-Thalidomide

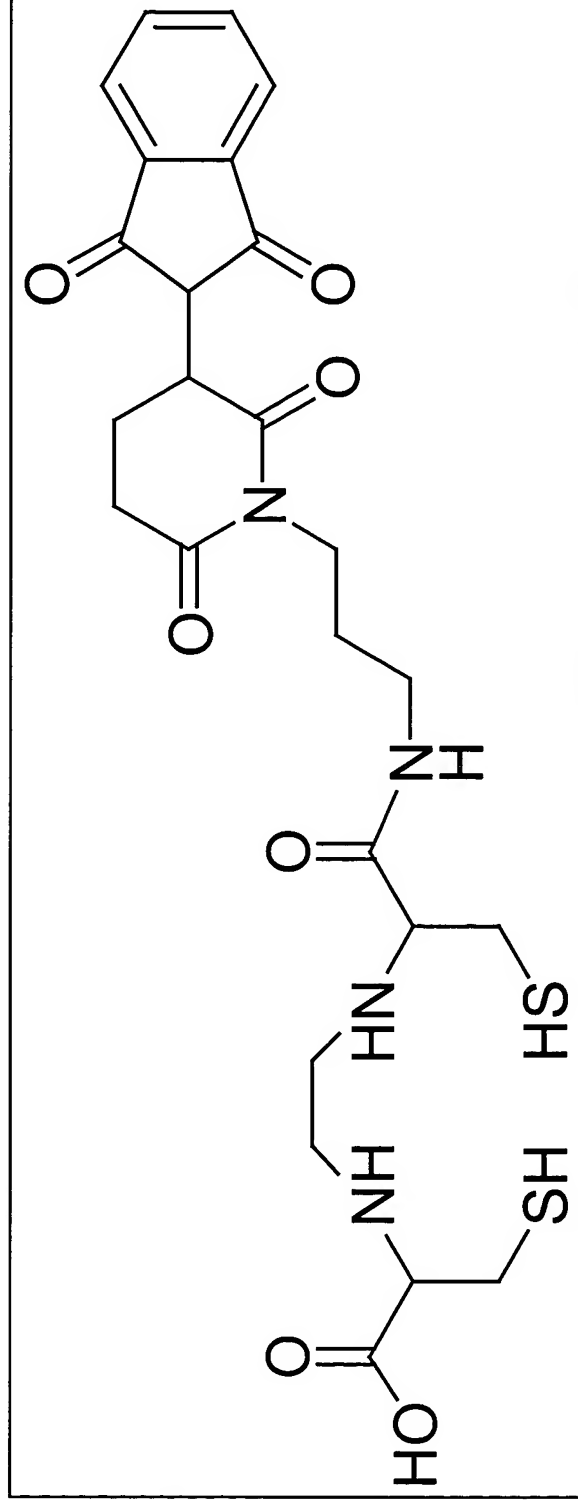
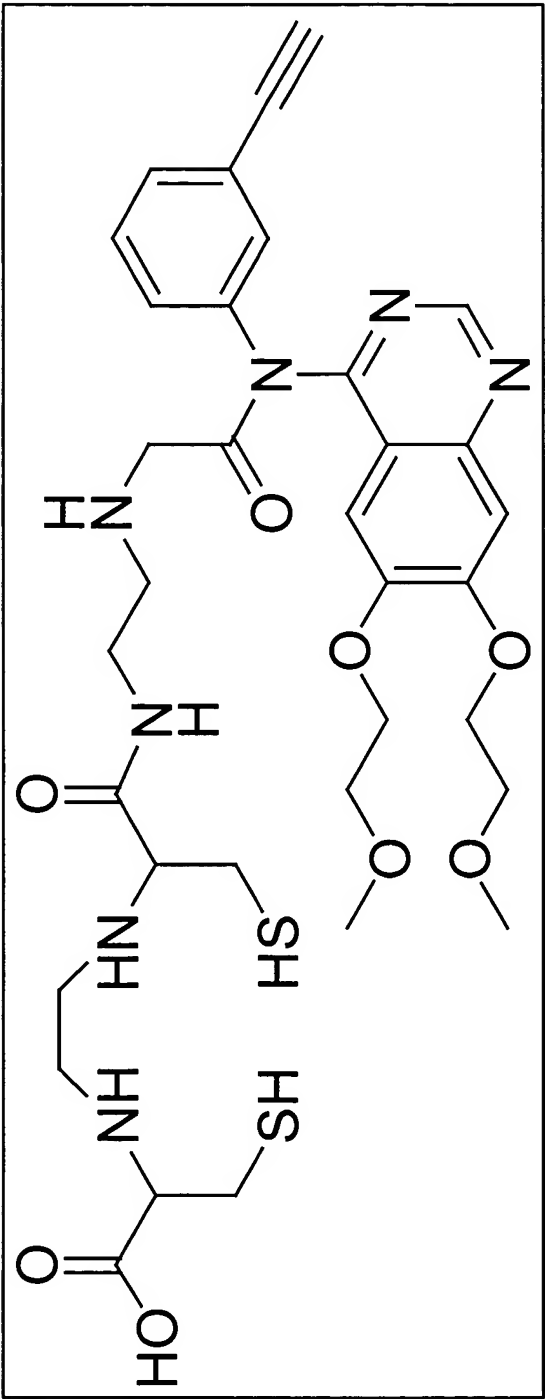


FIG. 18

# EC-Quinazoline



**FIG. 19**

# Synthesis of Aminopenciclovir

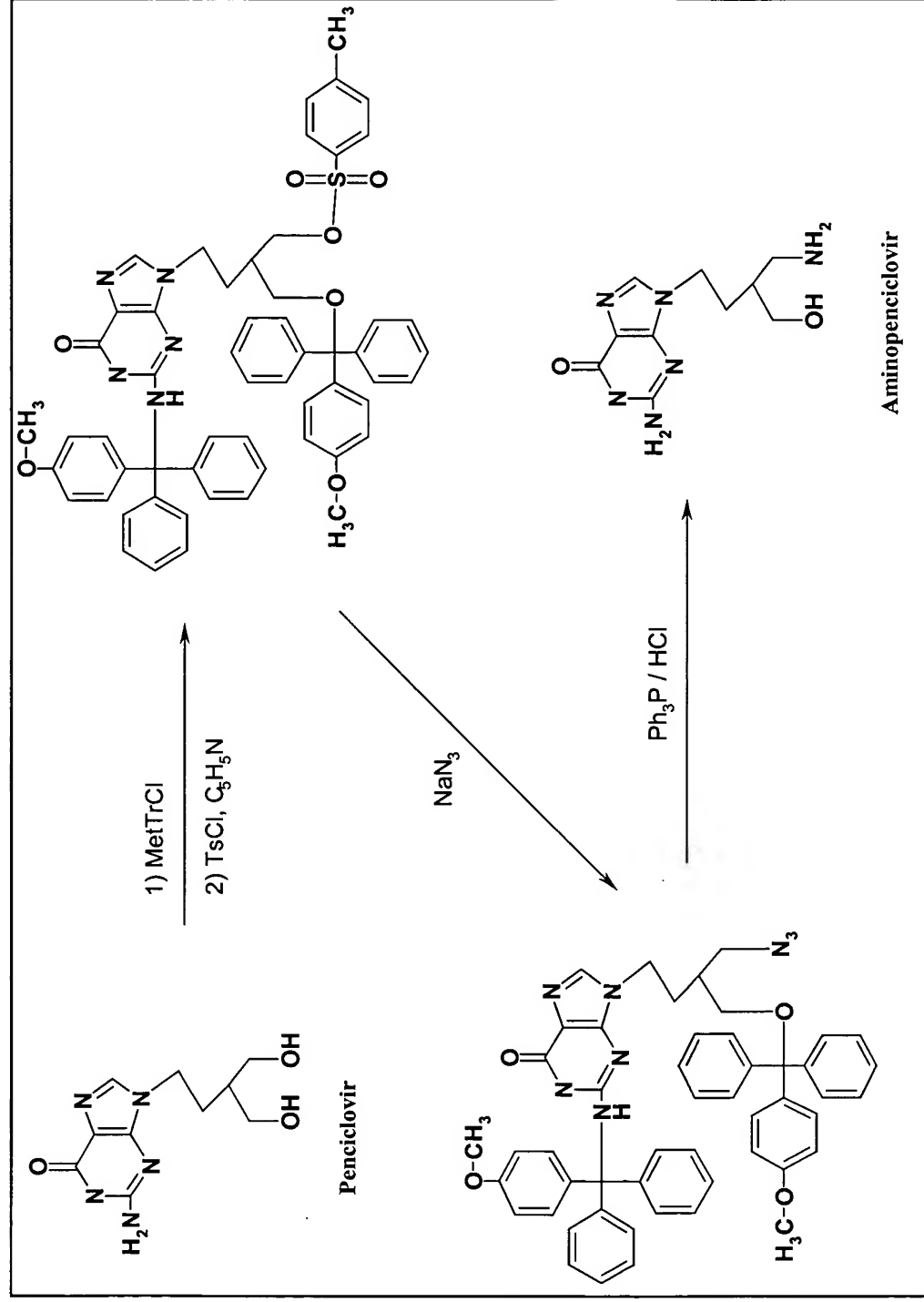


FIG. 20

# Synthesis of EC-Penciclovir

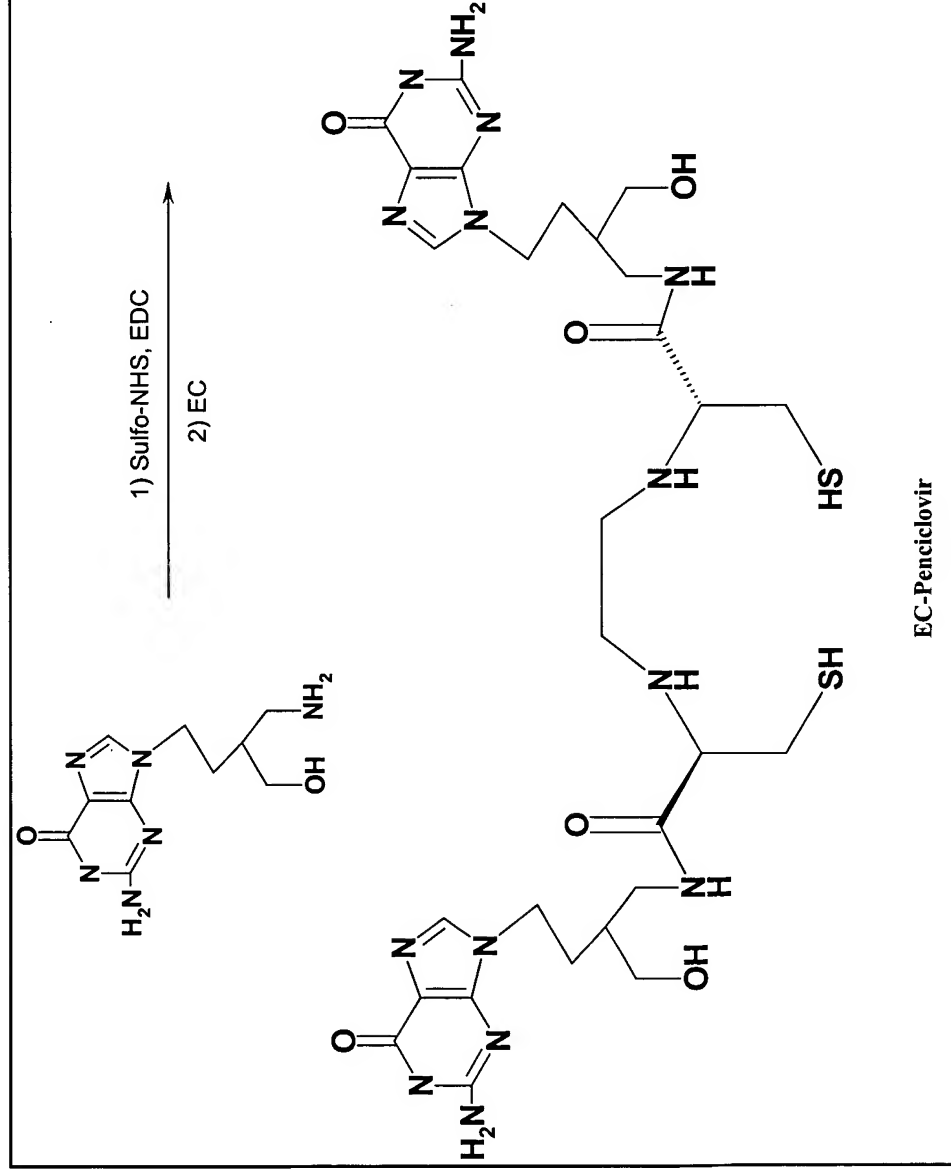


FIG. 21

# In Vitro Cellular Uptake of $^{99m}\text{Tc}$ -EC-Penciclovir in Human Cancer Cell Lines

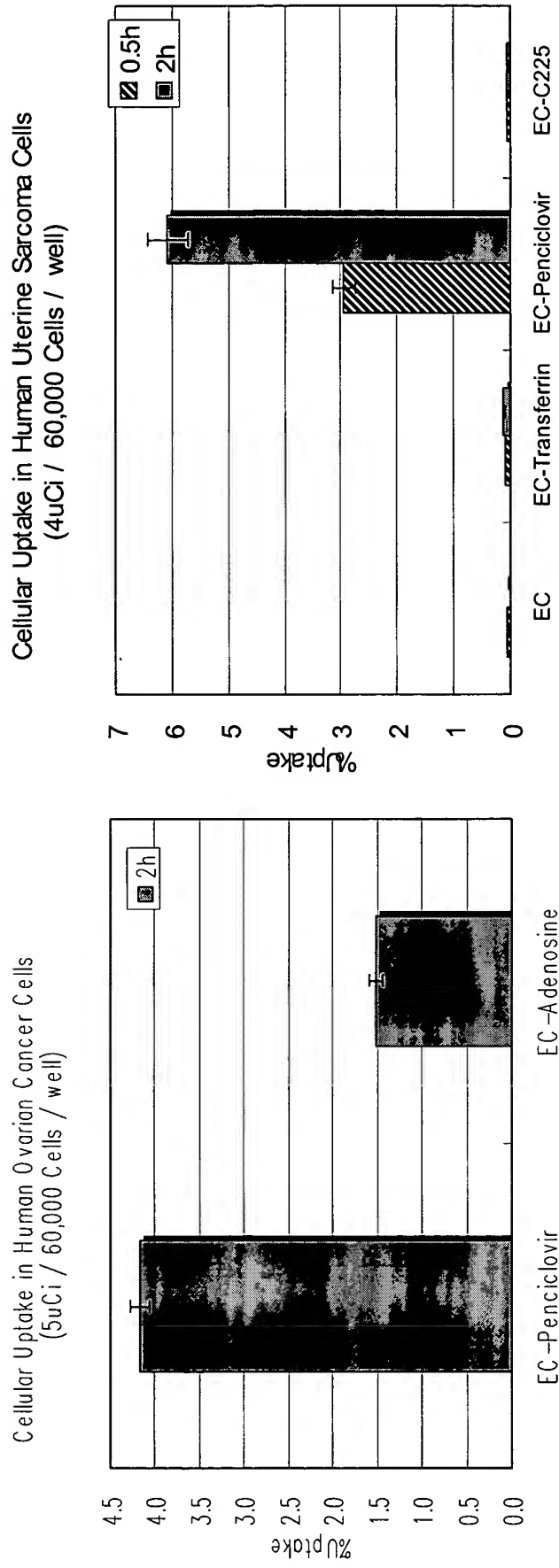


FIG. 22

# Scintigraphic Images of $^{99m}\text{Tc}$ -EC-Penciclovir

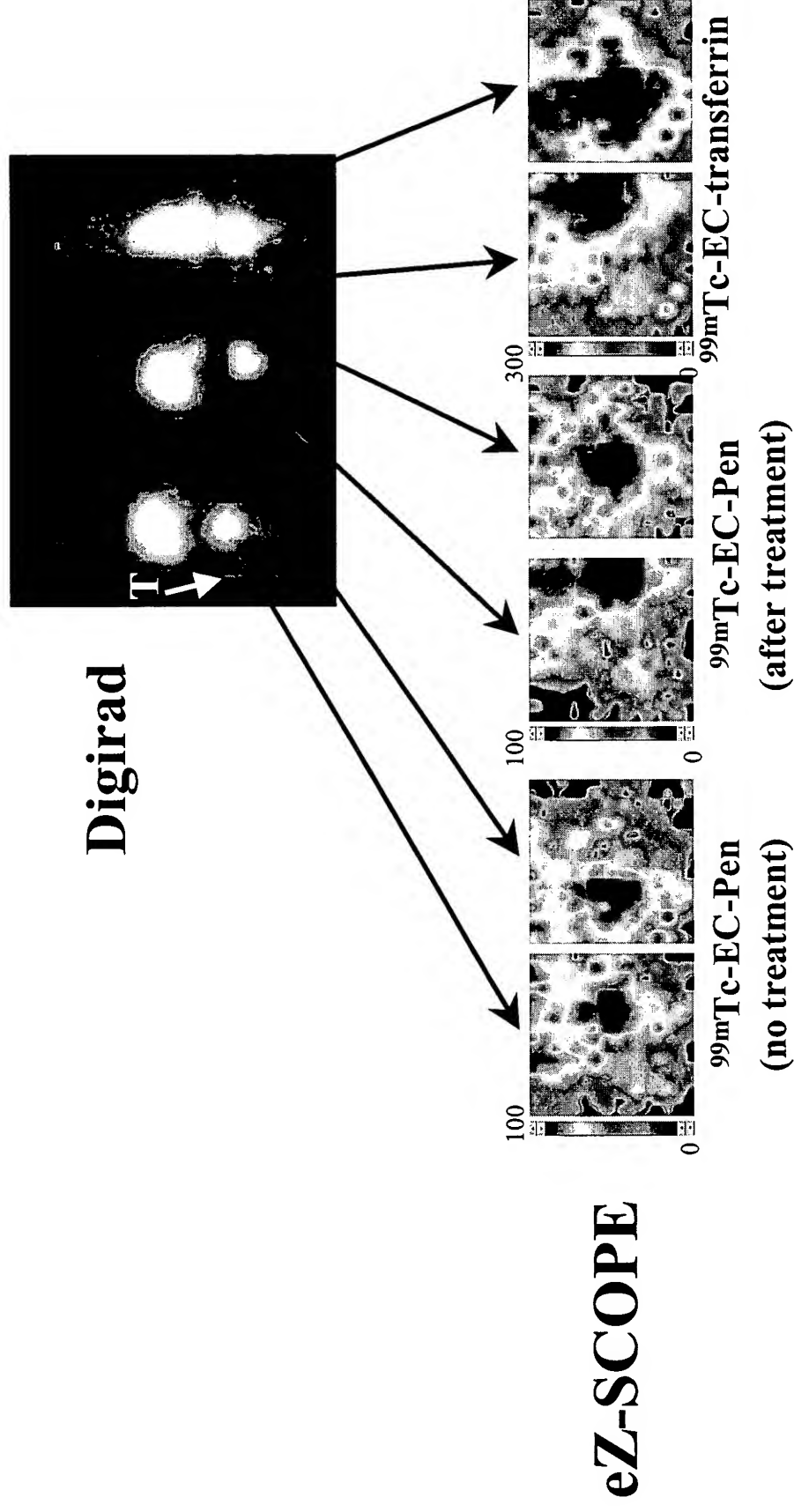


FIG. 23

# **Autoradiogram of $^{99m}\text{Tc}$ -EC-Penciclovir**



**FIG. 24**

BEST AVAILABLE COPY



# EC-Deoxycytidine

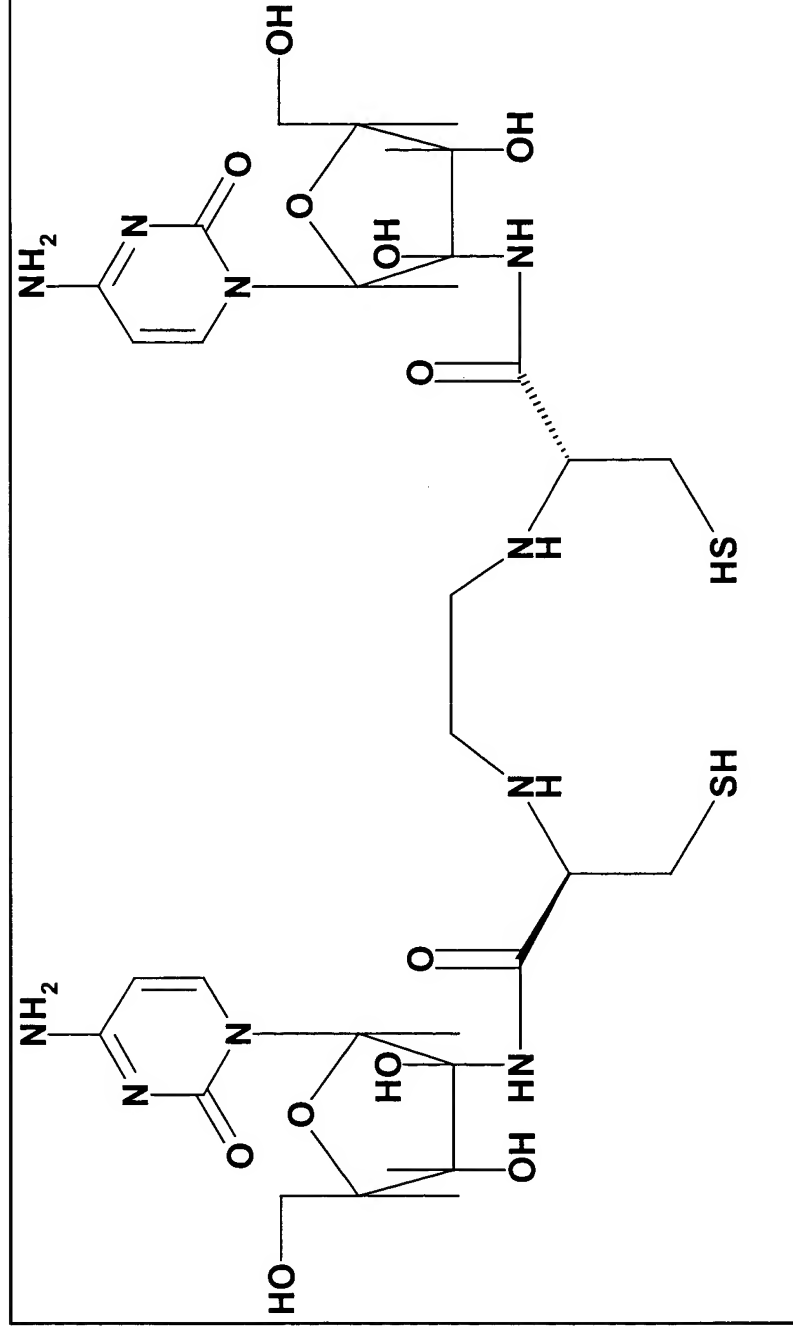


FIG. 25

# EC-Capecitabine

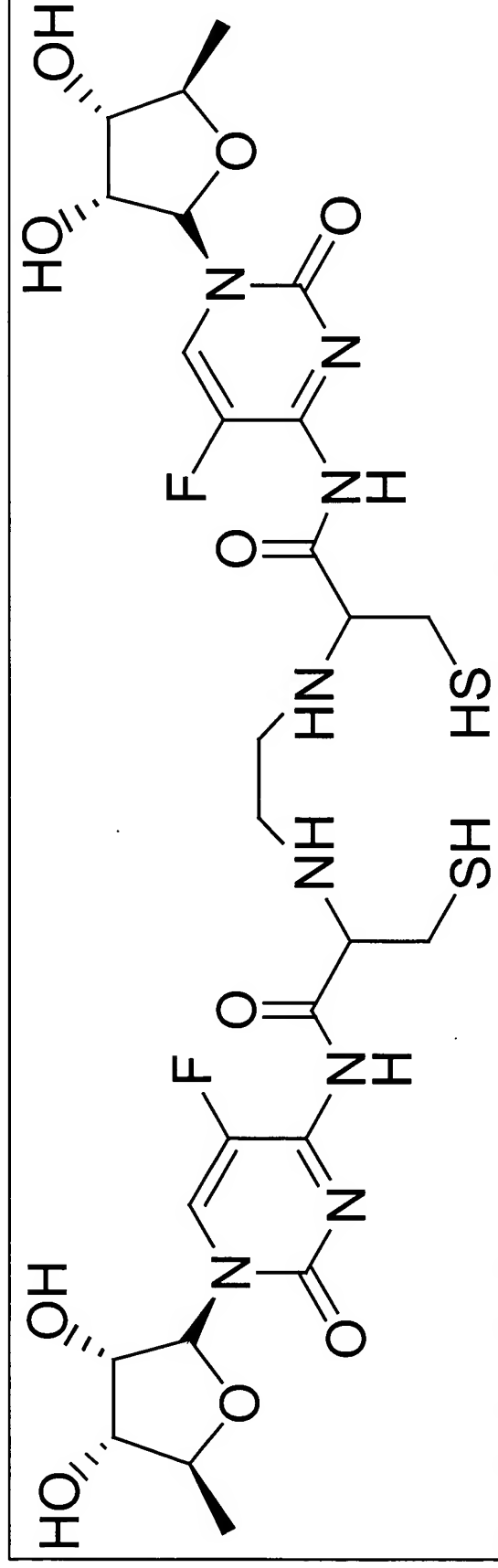
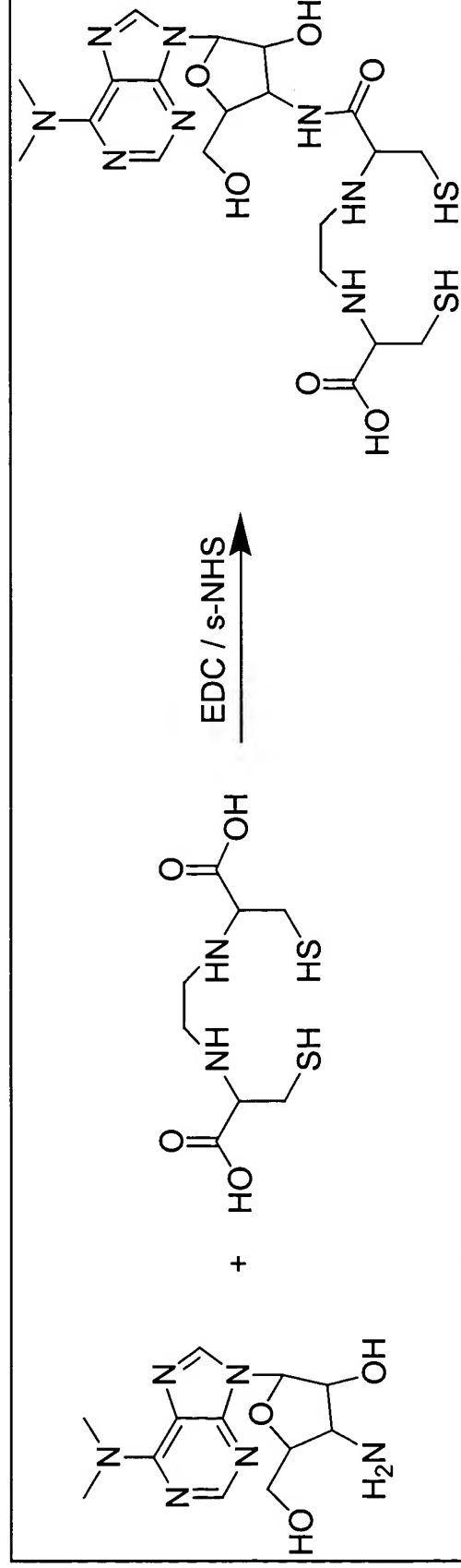


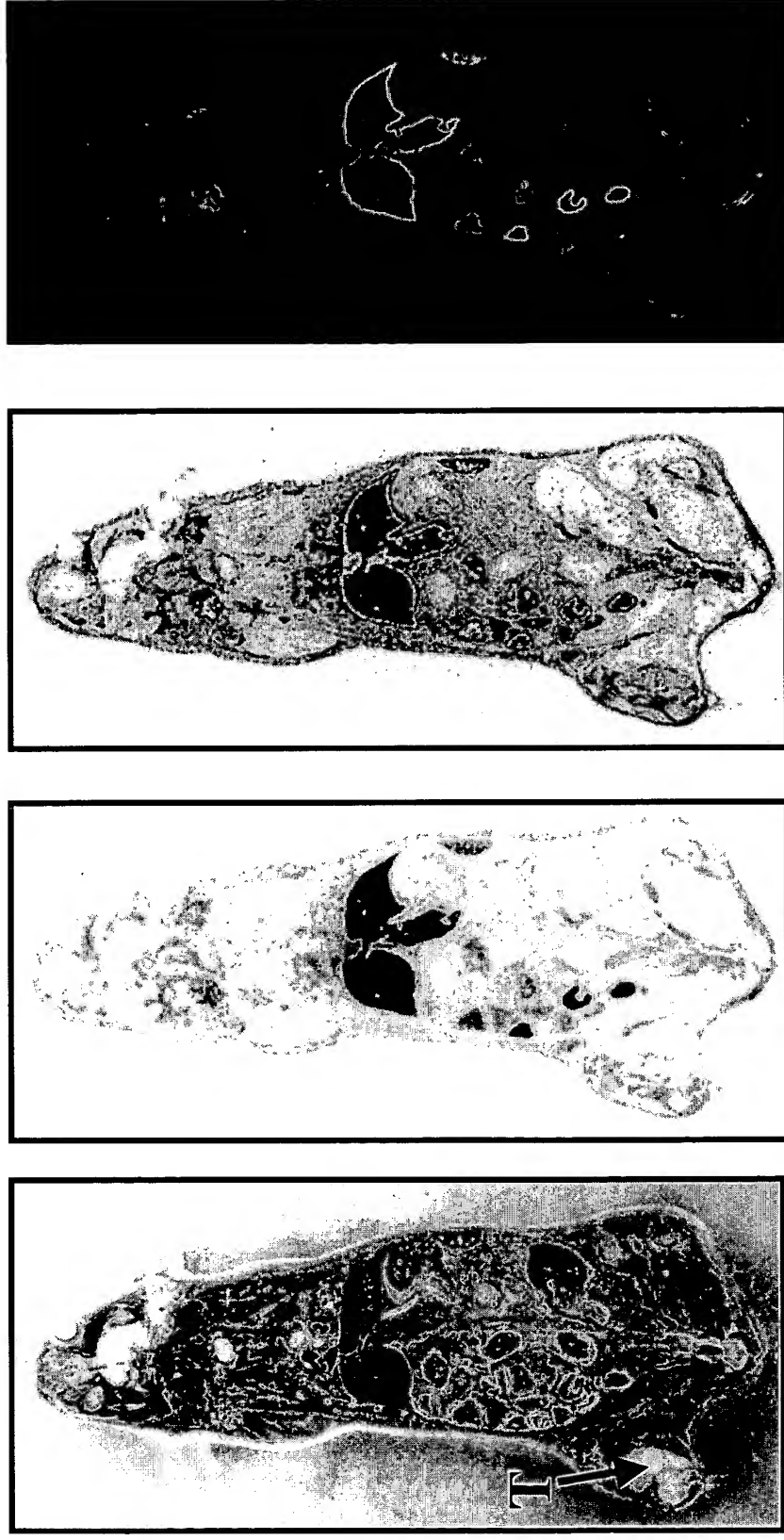
FIG. 26

# Synthesis of EC-Adenosine



**FIG. 27**

# **Autoradiogram of $^{99m}\text{Tc}$ -EC-Adenosine**

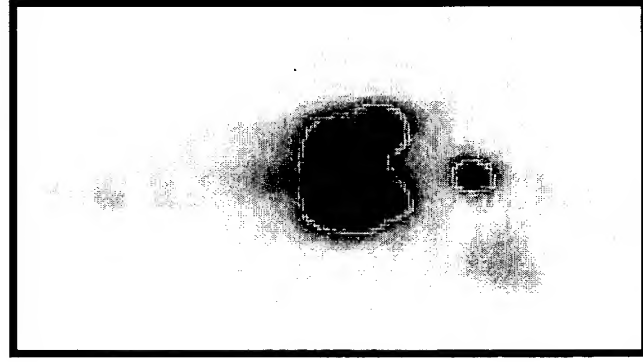


**FIG. 28**

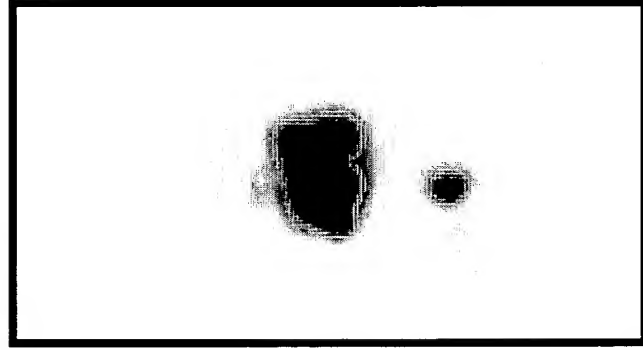
BEST AVAILABLE COPY

# Scintigraphic Images of $^{99m}\text{Tc-EC-LHRH}$

$^{99m}\text{Tc-EC}$

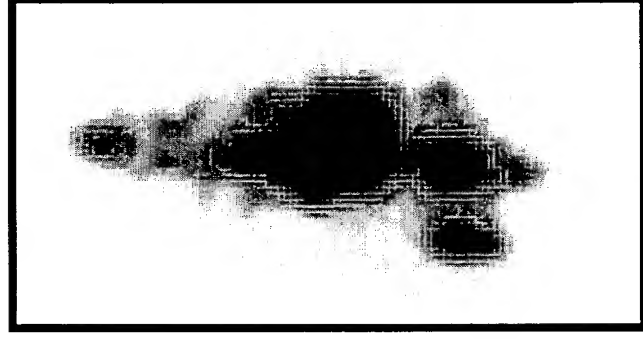


0.5



2hrs

$^{99m}\text{Tc-EC-LHRH}$



0.5



2hrs

FIG. 29

# In Vitro Cellular Uptake of $^{99m}\text{Tc}$ -EC-Agents In Human Ovarian Cancer Cells at 2 Hours

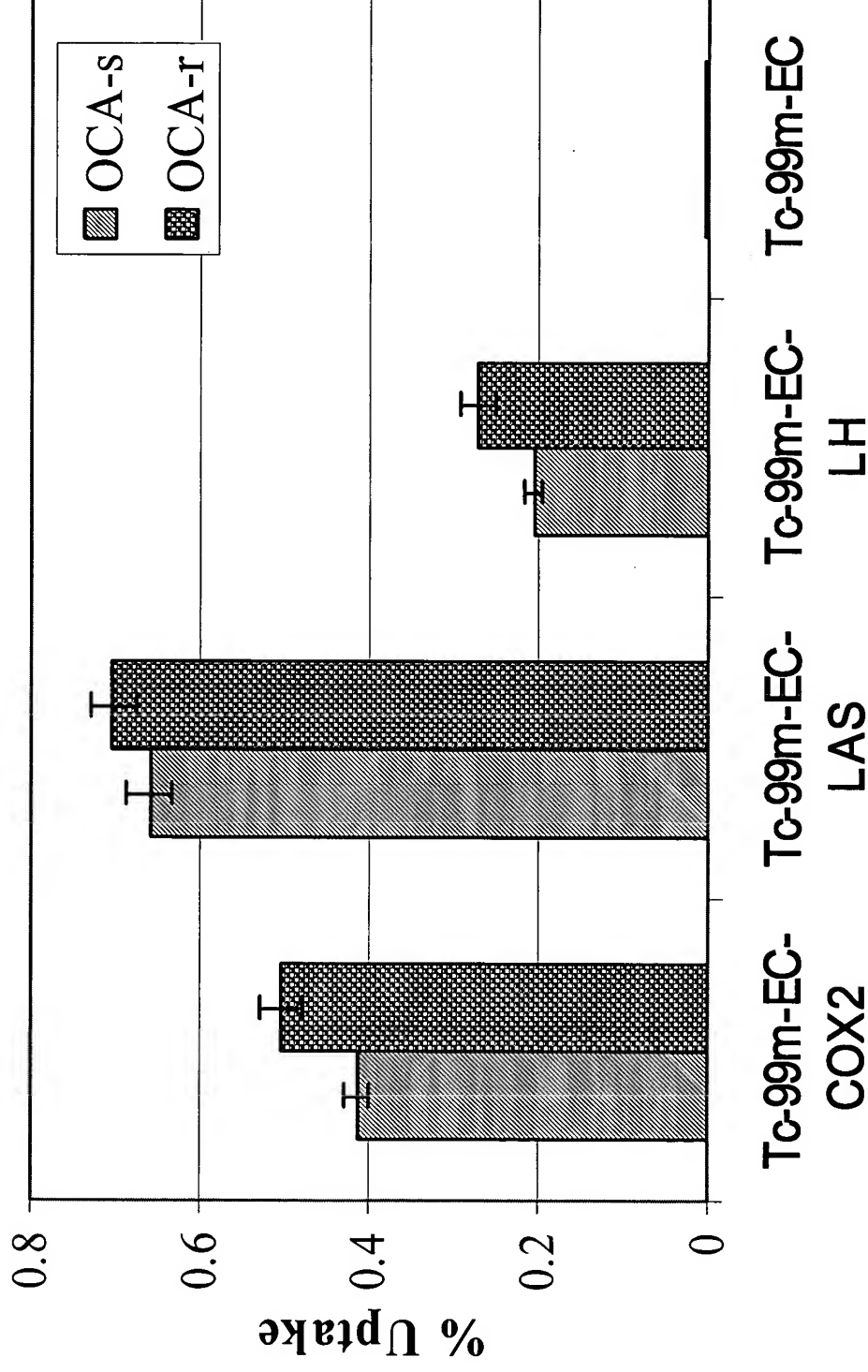


FIG. 30

# Scintigraphic Images of $^{99m}\text{Tc}$ -EC-LH

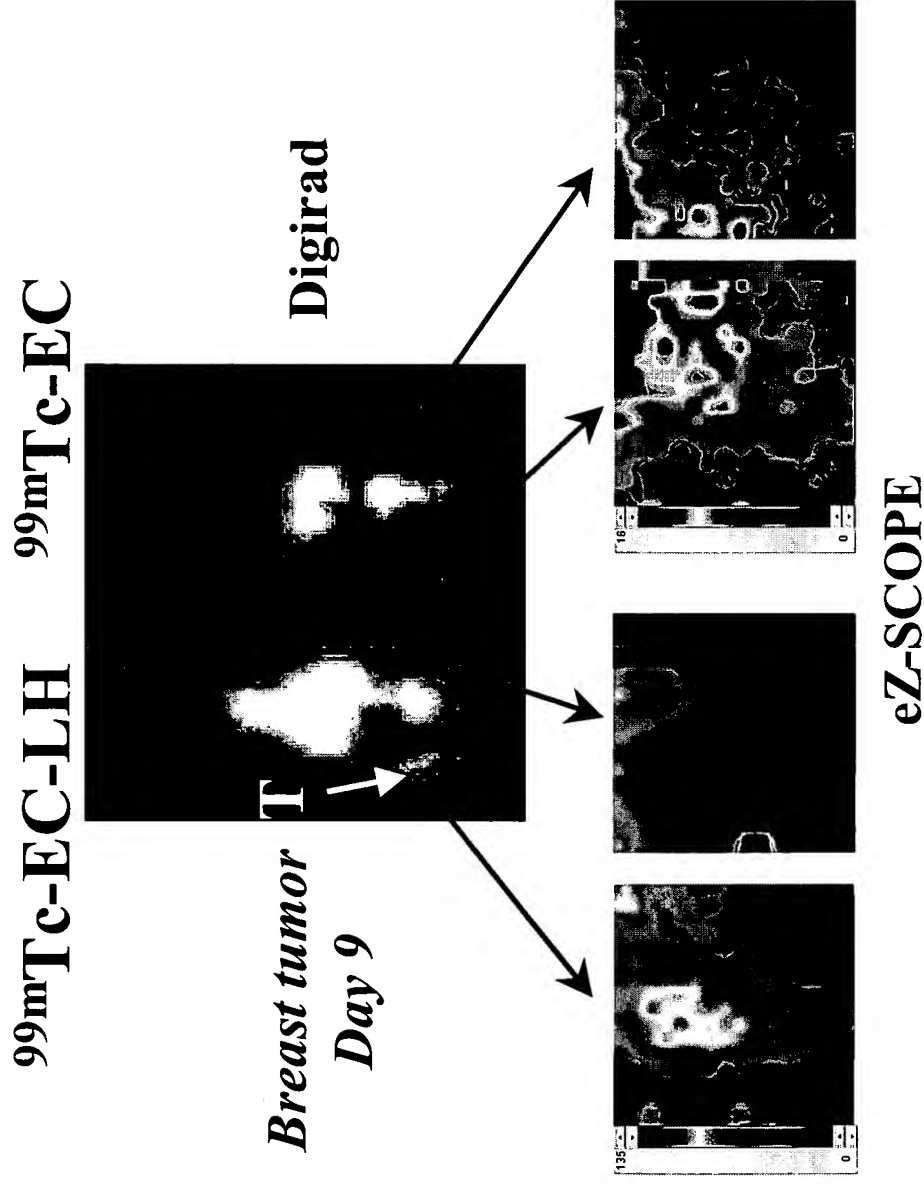


FIG. 31

# Autoradiogram of $^{99m}\text{Tc}$ -EC-Transferrin

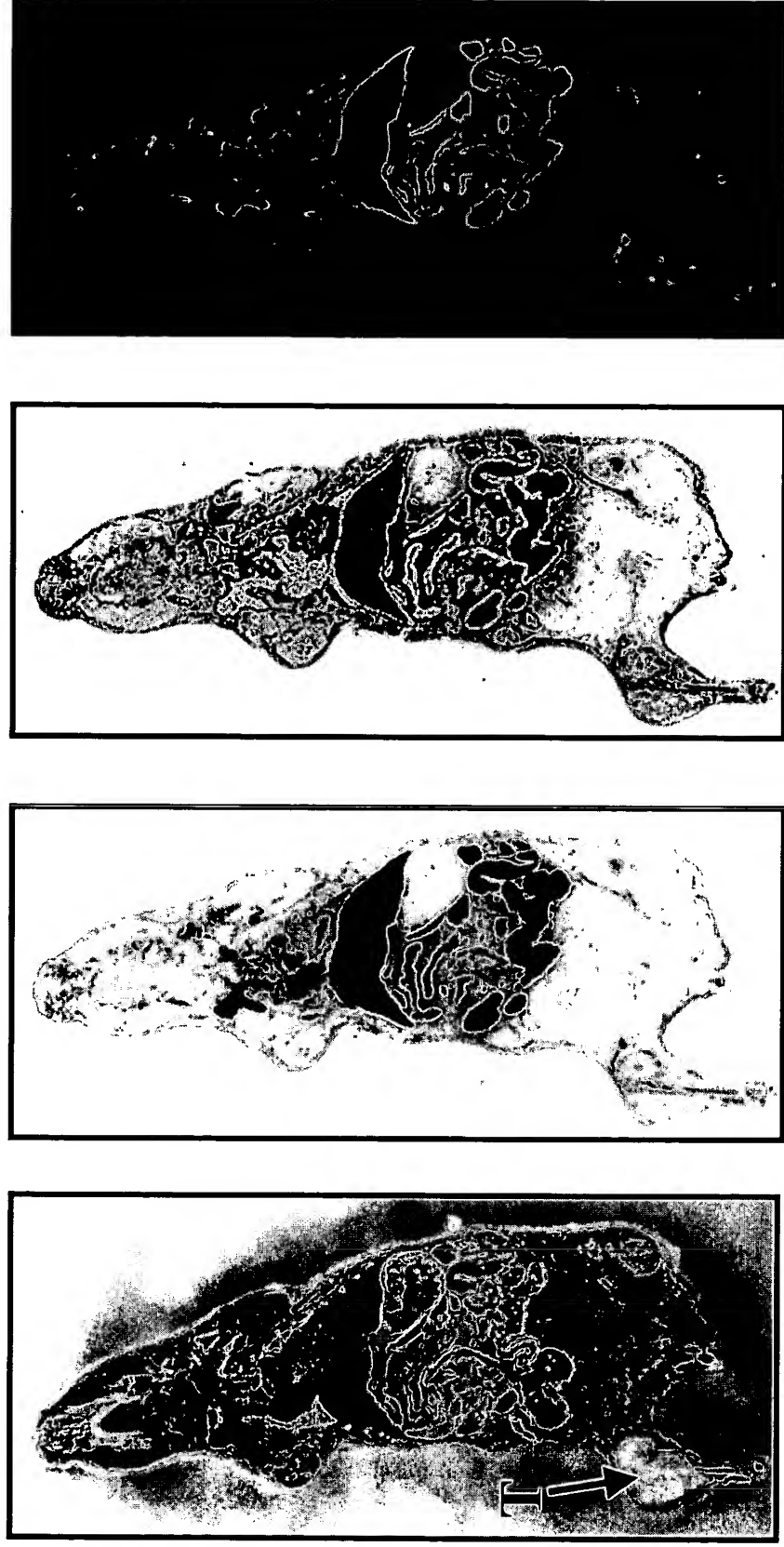


FIG. 32



## Synthesis of EC-TML

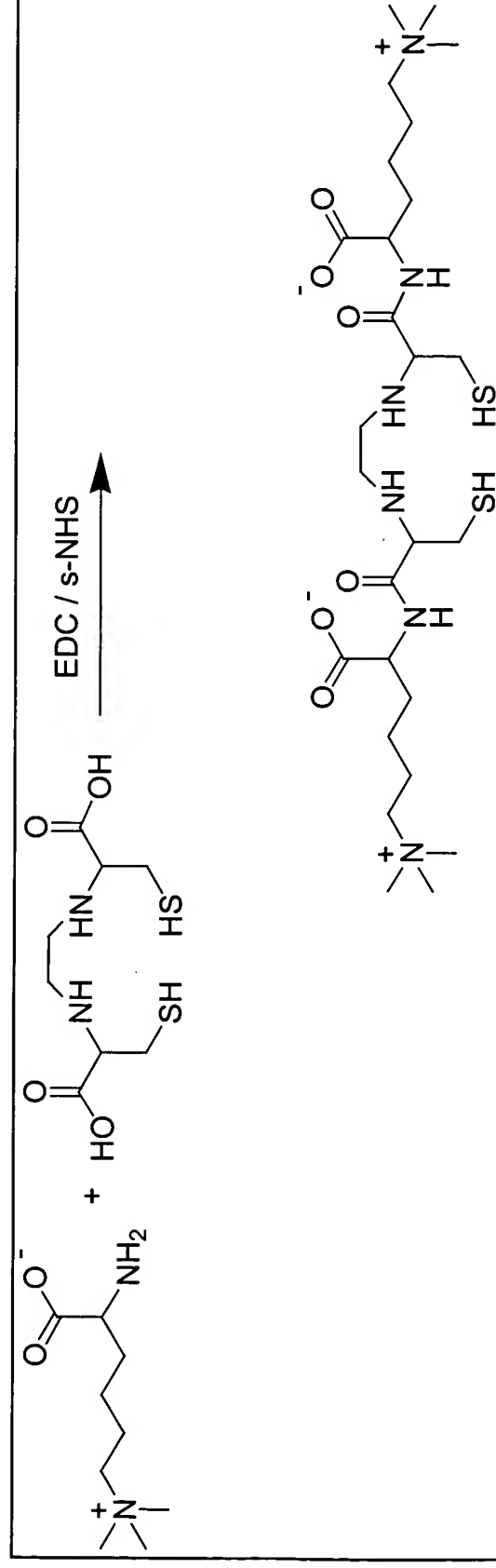


FIG. 33

# Mass Spectrum of EC-TML

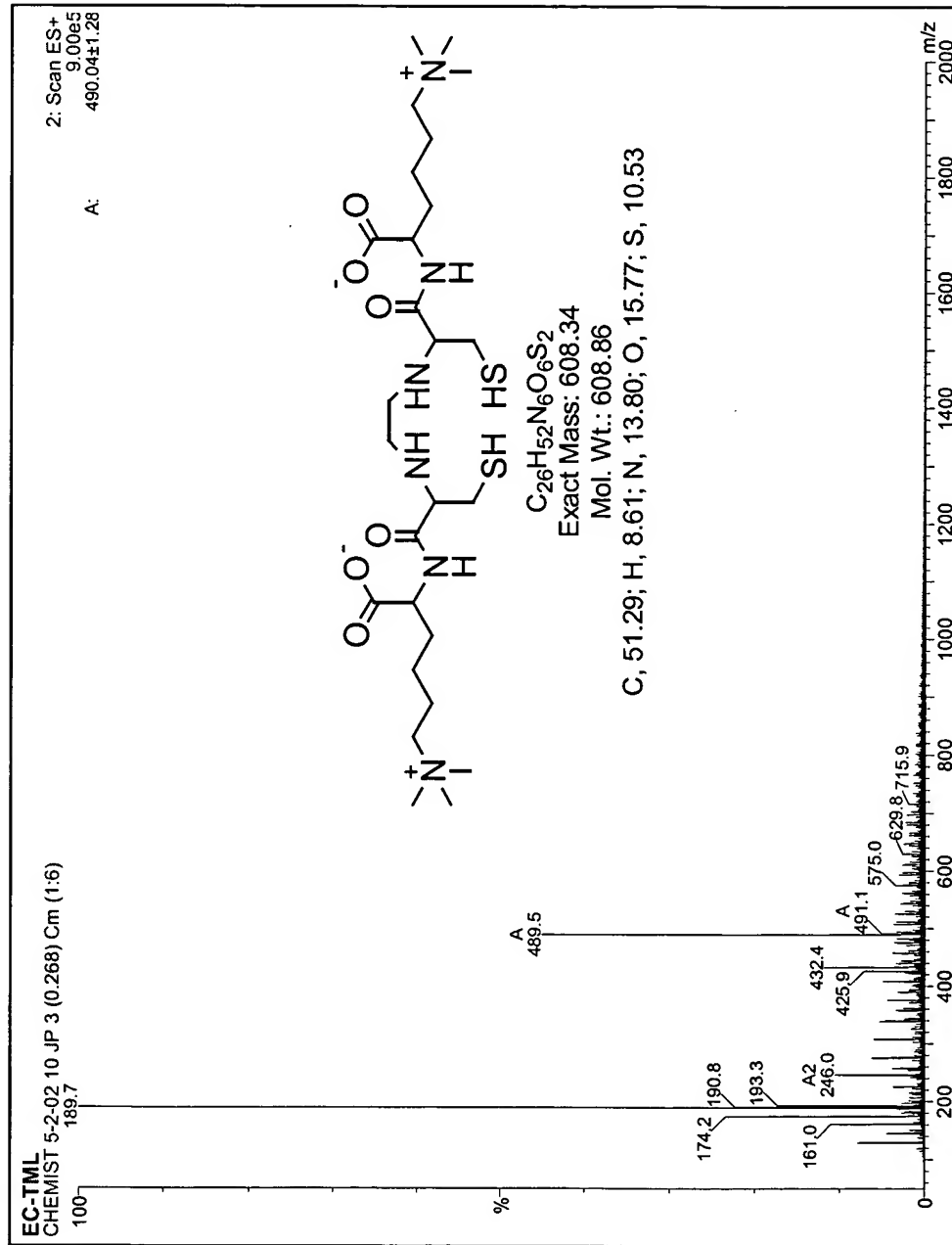


FIG. 34

# Heart-to-Muscle & Tumor-to-Muscle Ratios Of $^{99m}\text{Tc}$ -EC-TML In Breast Tumor-Bearing Rats

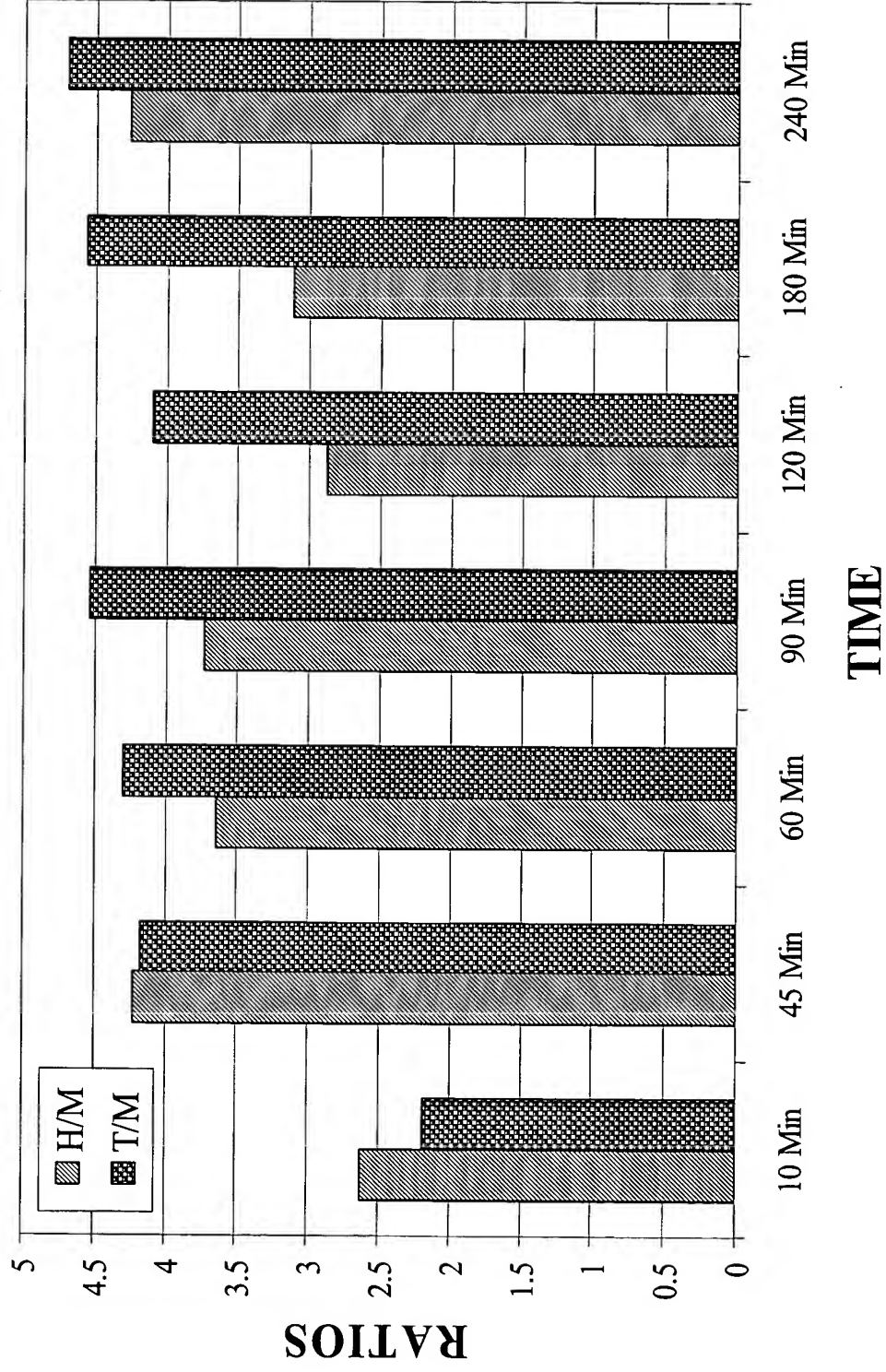


FIG. 35

# Scintigraphic Images of $^{99m}\text{Tc}$ -EC-TML

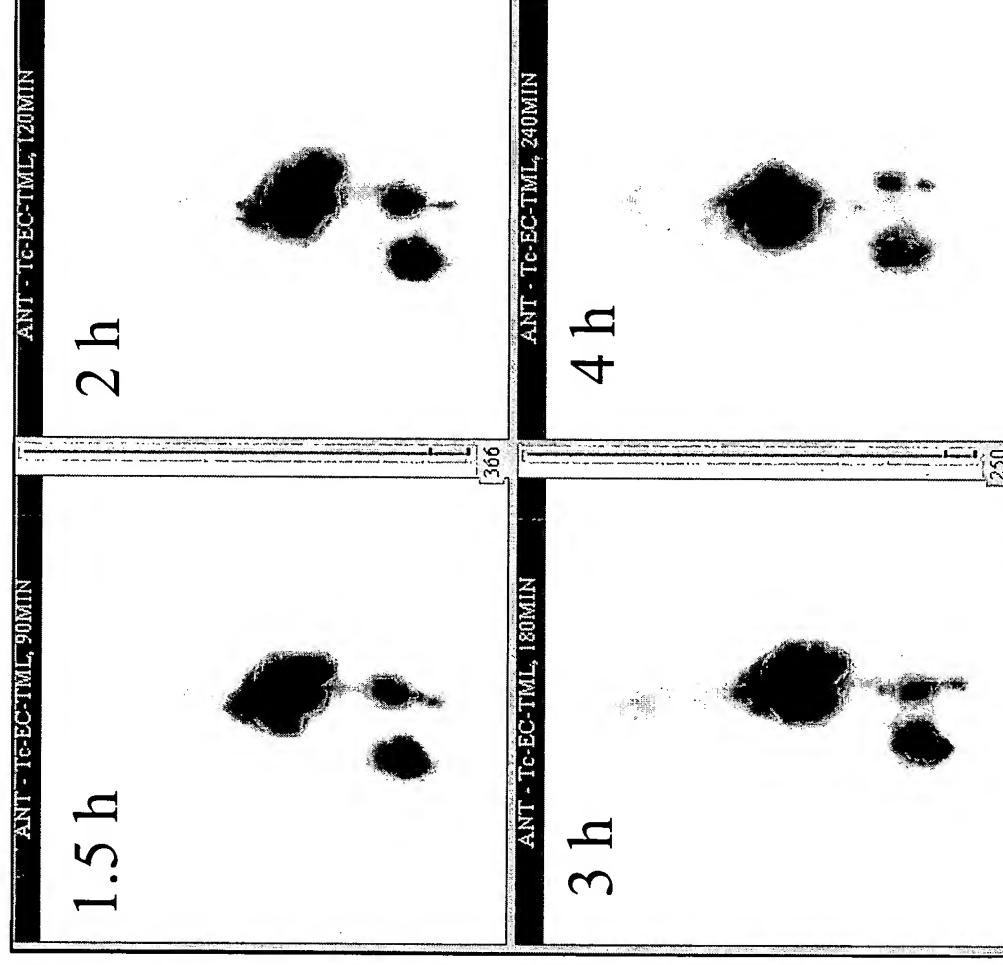


FIG. 36

# Synthesis of EC-Pyridoxal

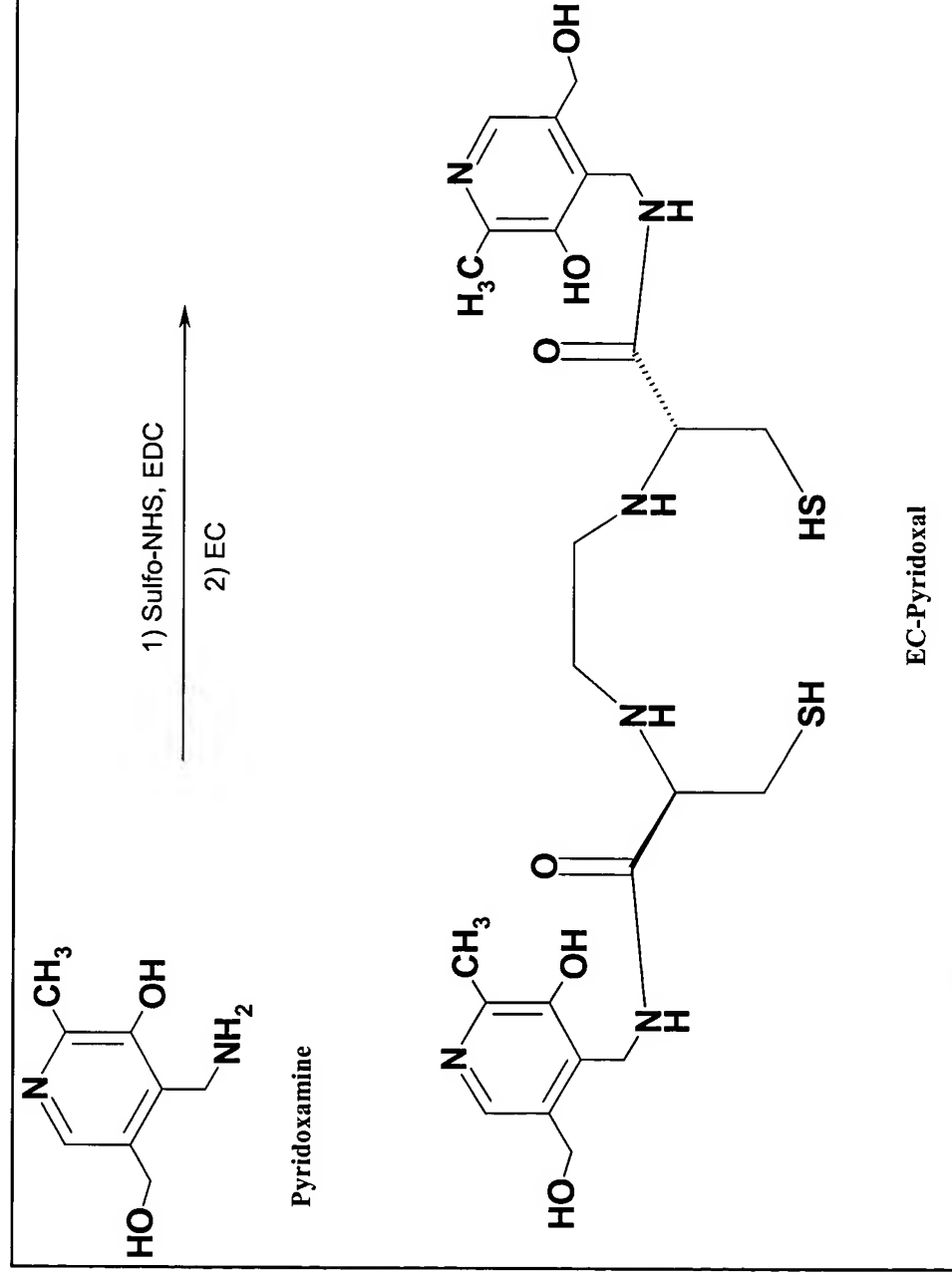


FIG. 37

# Synthesis of $^{99m}\text{Tc}$ -Fullerene-EC-Drug Conjugates

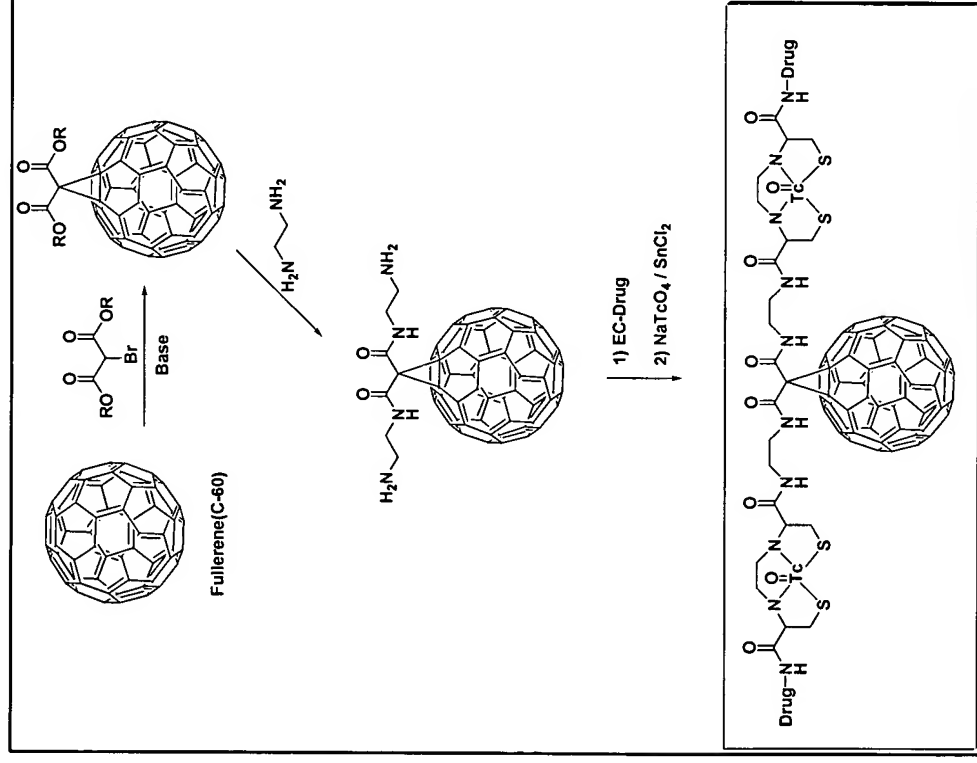


FIG. 38

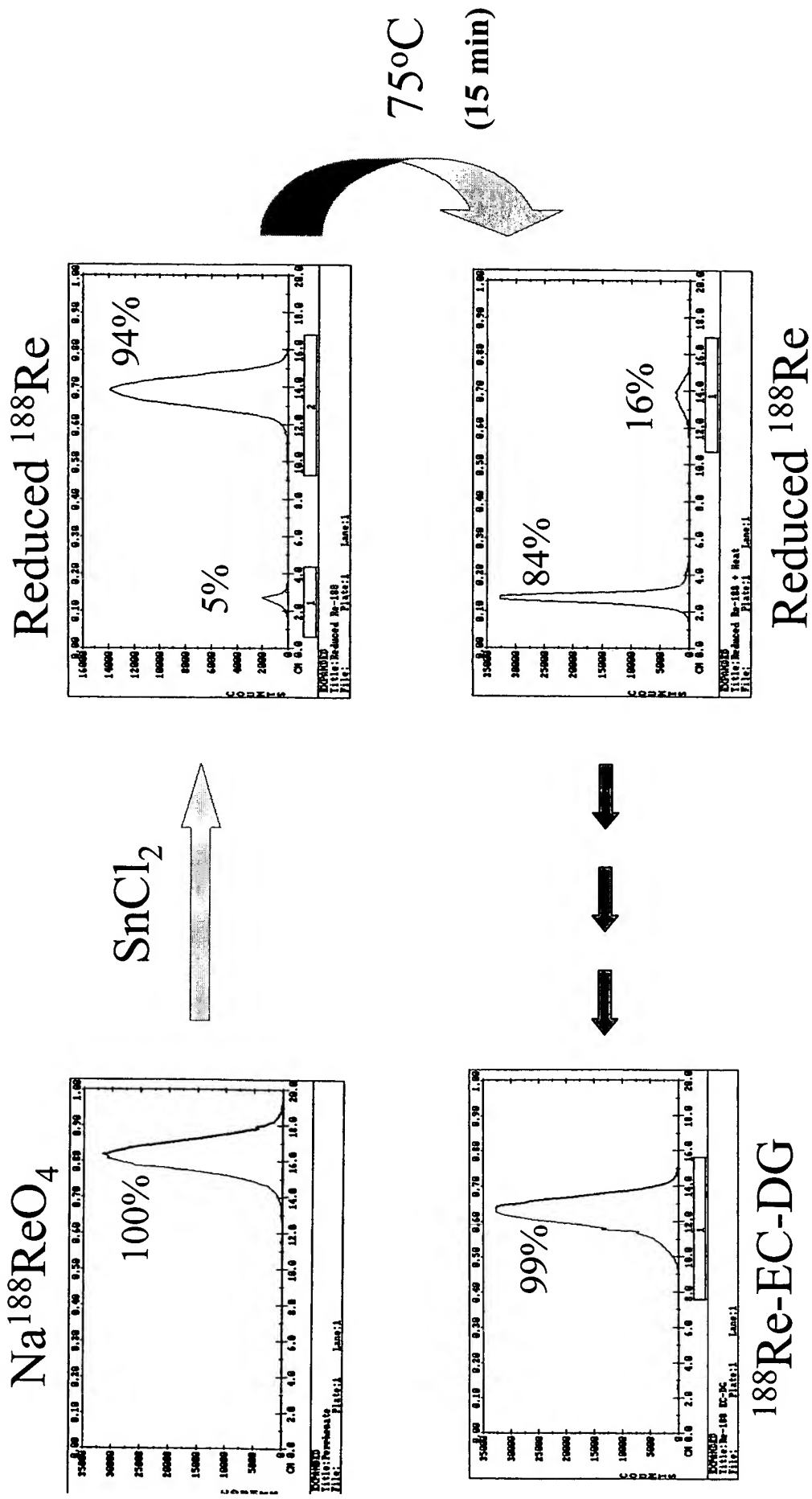


FIG. 39

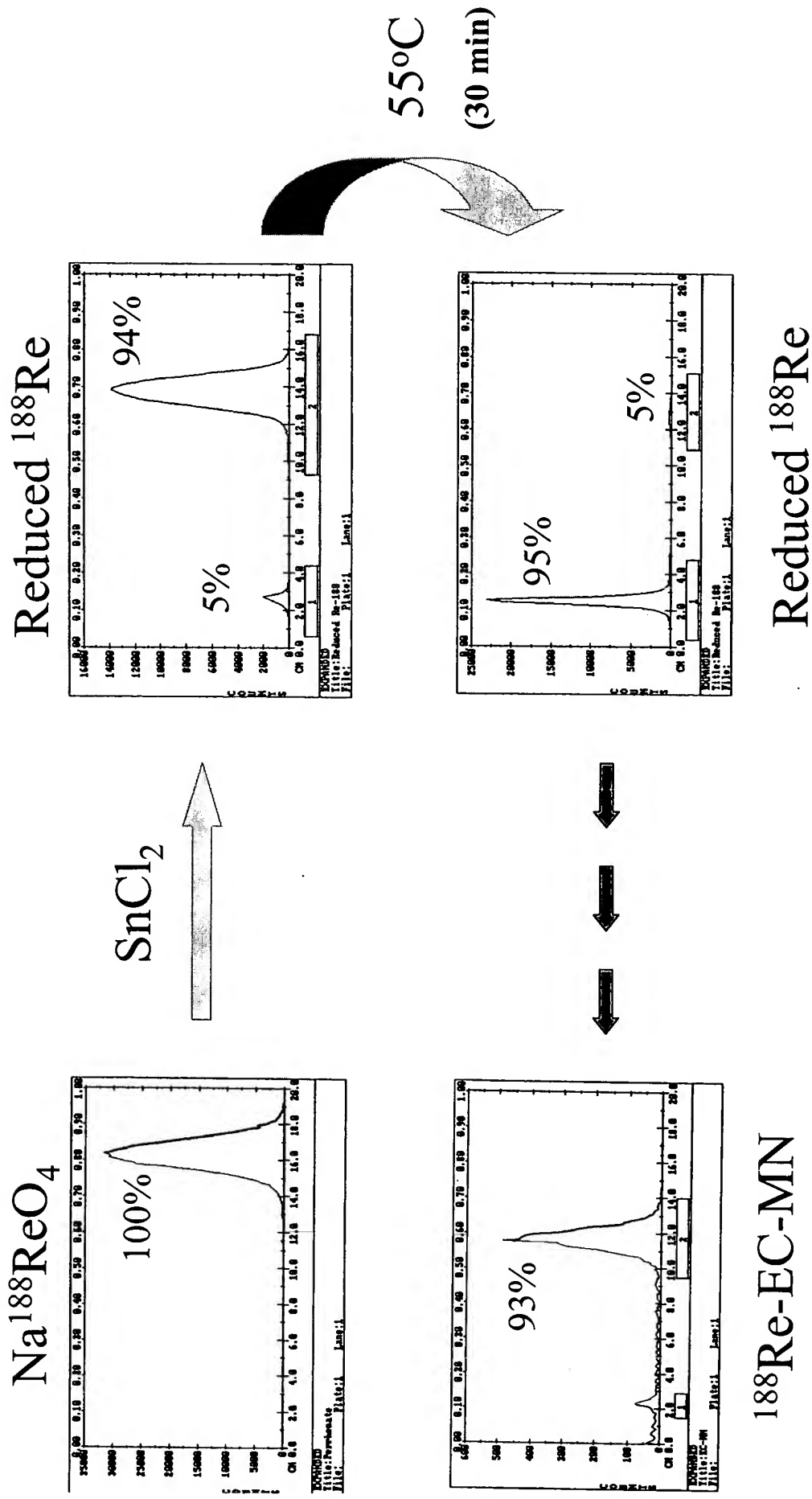
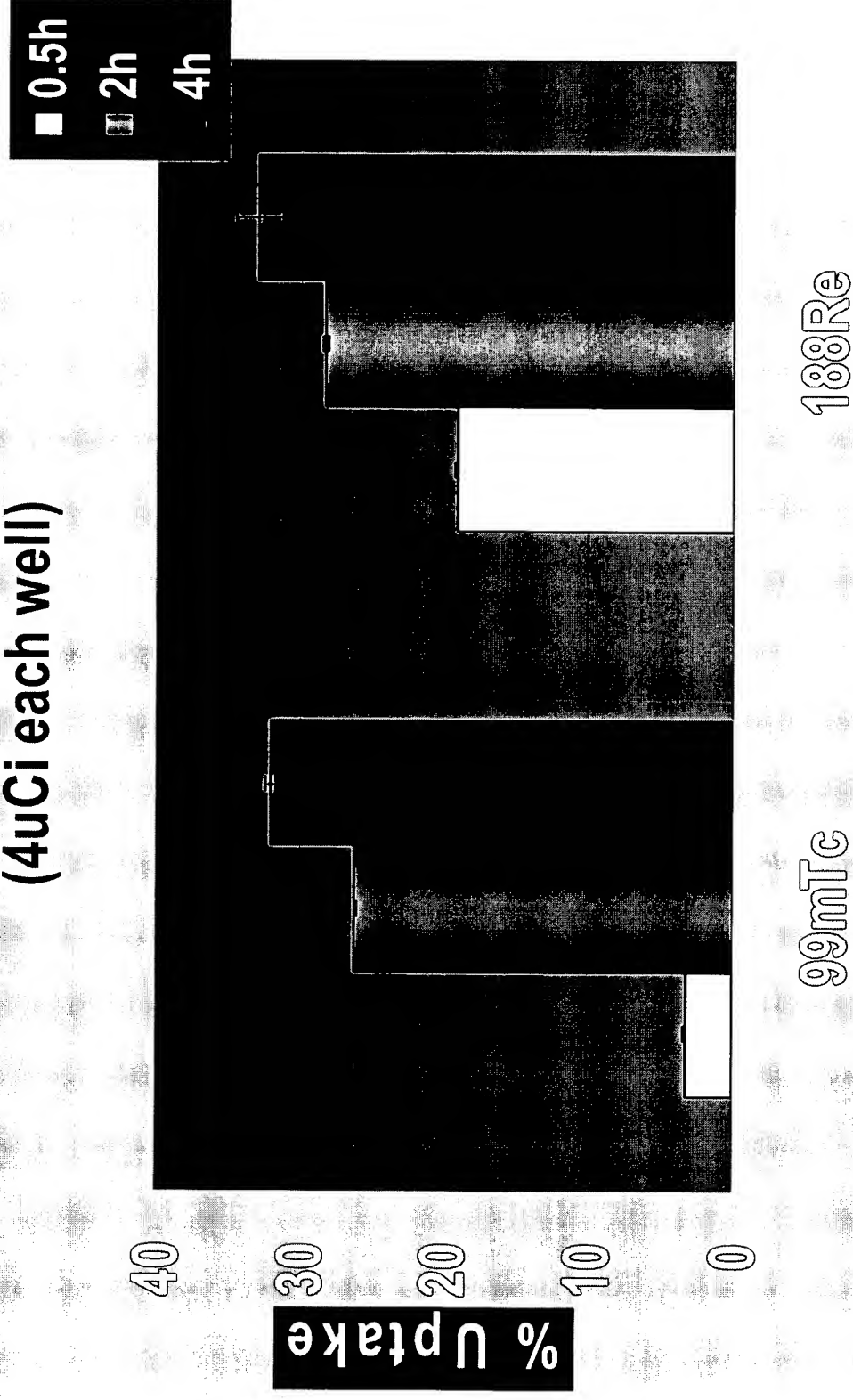


FIG. 40



**Cellular Uptake of EC-Guan  
in Human Lung Tumor Cells (A549)  
(4uCi each well)**



**FIG. 41**

# Cellular Uptake in Breast Cancer Cells (RBA CRL-1747, 4 uCi/well)

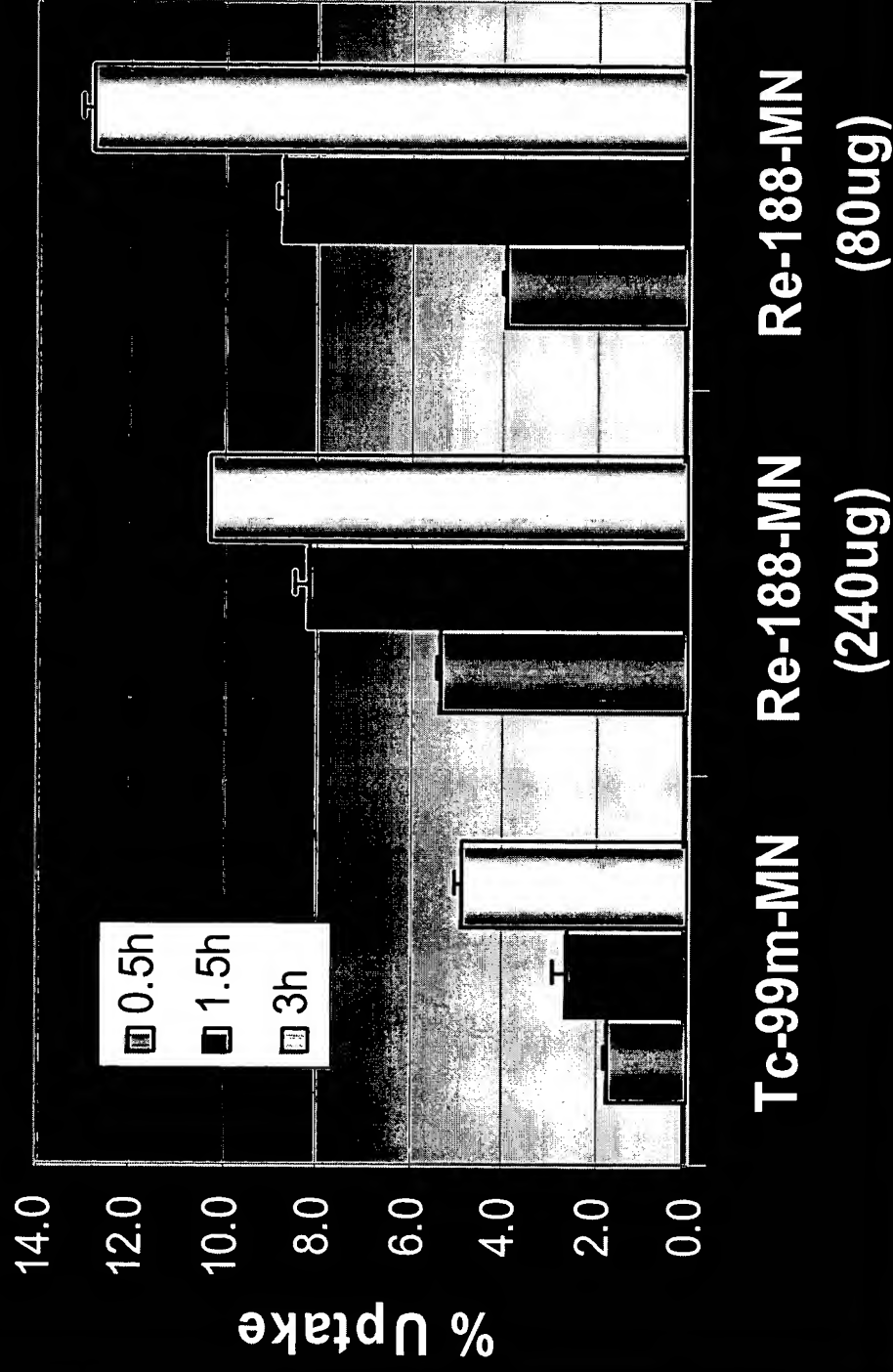


FIG. 42

# Cellular Uptake Study of $^{99m}\text{Tc}$ -EC-DG Kit in 13762 Cell Line

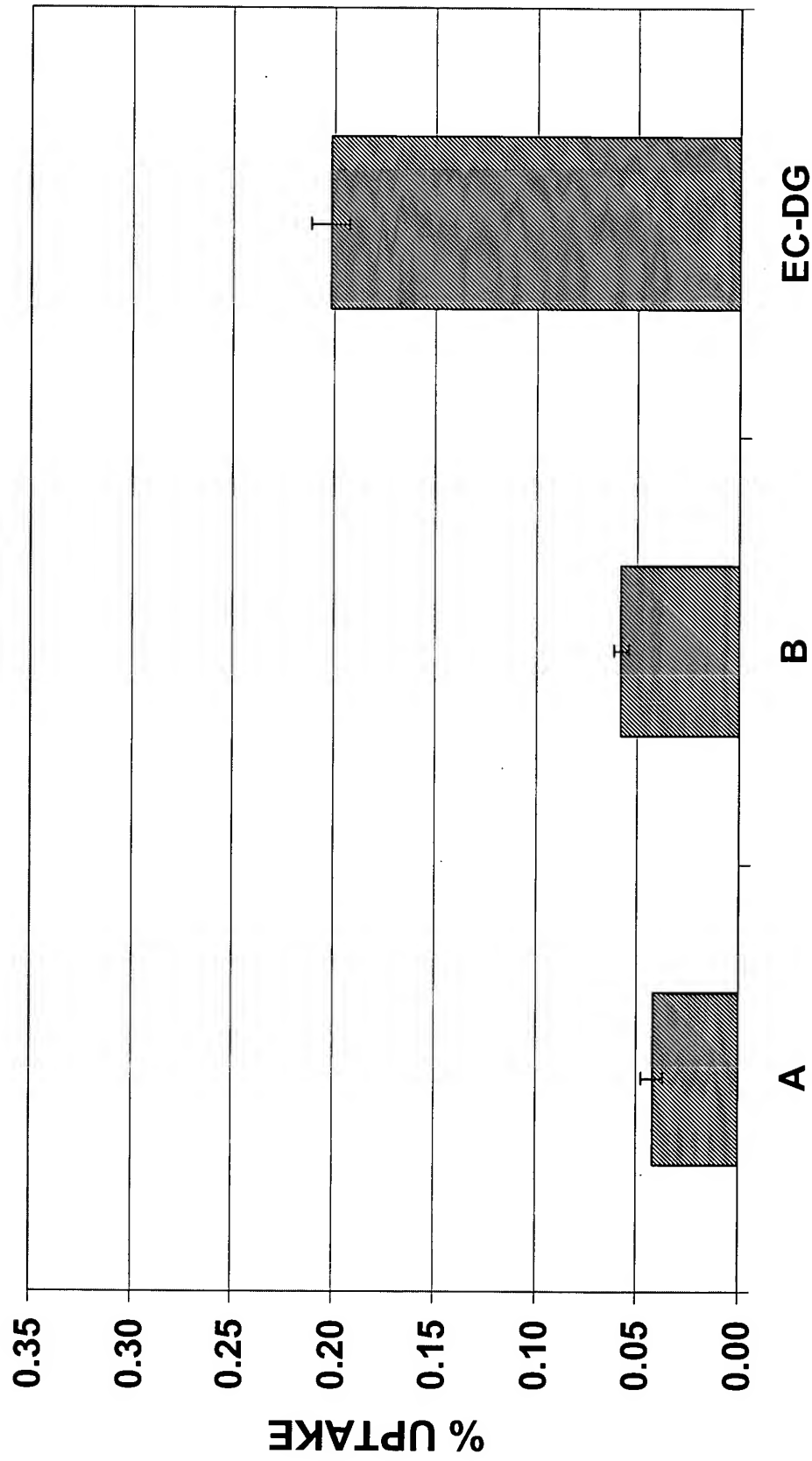


FIG. 43A

# Cellular Uptake Study of $^{99m}\text{Tc}$ -EC-DG Kit in 13762 Cell Line

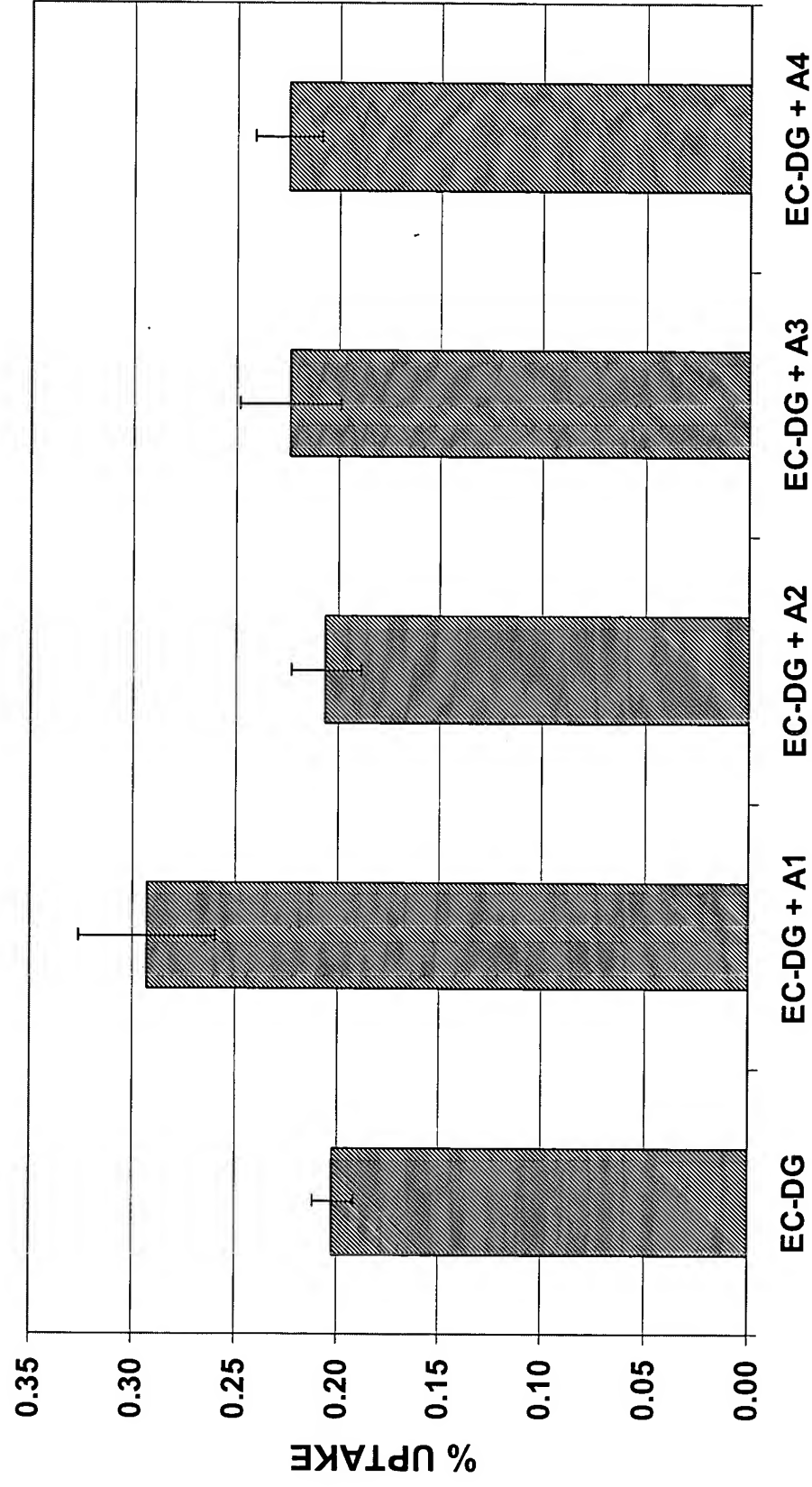


FIG. 43B

# Cellular Uptake study of $^{99m}\text{Tc}$ -EC-DG Kit in 13762 Cell Line

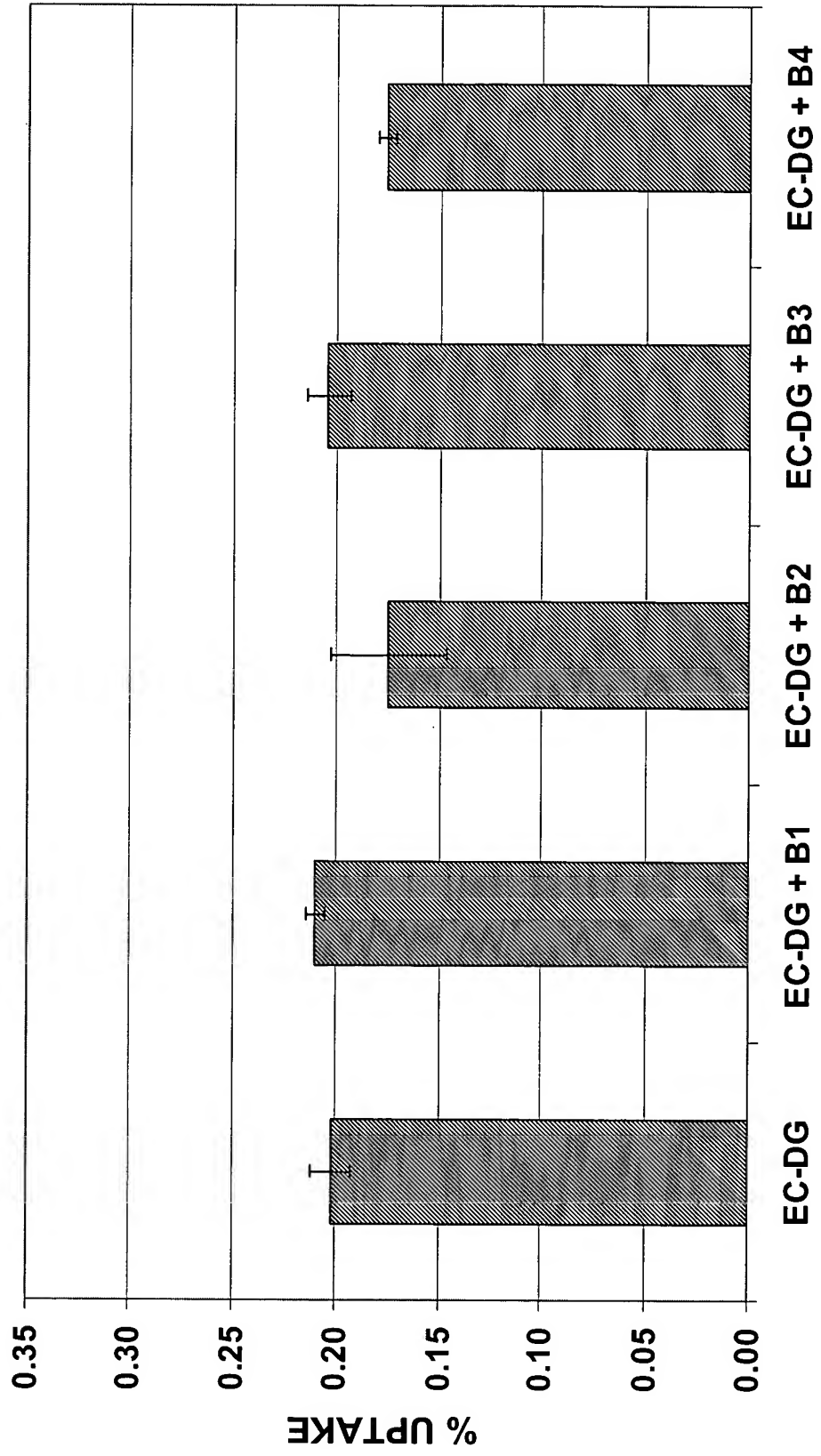


FIG. 43C